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FM 21-7

WAR DEPARTMENT BASIC FIELD MANUAL

LIST OF TRAINING FILMS FILM STRIPS AND FILM BULLETINS

WAR DEPARTMENT • 1 JANUARY, 1944

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LIST OF
TRAINING FILMS
FILM STRIPS
AND FILM BULLETINS

WAR DEPARTMENT • 1 JANUARY 1944

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BY ORDER OF THE SECRETARY OF WAR:

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(For explanation of Symbols see FM 21-6.)

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Subject Index of Training Films, Film Strips, and Film Bulletins

Section I

General

1. PURPOSE This is one of a series of manuals covering instructional materials for military training. FM 21-5 and TM 21-250 summarize the basic principles of military training and instruction. FM 21-6 consists of lists of War Department training publications. This manual deals with all major types of visual and audio-visual aids which are exhibited by projection. FM 21-8 covers other types of training aids, such as models, charts, graphic portfolios, and special training devices. The purpose of this manual is to provide a list of available training films, film bulletins, and film strips, and to tell how these aids may be obtained and used effectively in military training.

2. DEFINITIONS

a. Film. A general term used in this manual to cover training films, film bulletins, and film strips.

b. Training Films. These are sound motion pictures dealing with approved War Department doctrine and produced for use in military training. They cover specific topics and are intended for use at a definite time and place in the training program. Nearly all training films are available in both 16-mm and 35-mm sizes.

c. Film Bulletins. These are sound motion pictures dealing with new military developments, not necessarily based on approved War Department doctrine, and produced for the information of officers and enlisted men. They are available in both 16-mm and 35-mm sizes.

d. Film Strips. These are series of still pictures dealing with approved War Department doctrine printed on strips of 35-mm film for use in conjunction with lectures, demonstrations, or other training procedures. Like training films, they deal with specific topics and are intended for use at a definite time and place in the training program.

e. Film Library. A depository for projection equipment and films. The function of the library is to provide efficient loan service of equipment and films to troop units and other military personnel served by the library.

f. Film Distribution Division. This is a division of the Signal Corps Photographic Center, Long Island City, New York, that supplies films and related film literature to service commands, defense commands, and theaters of operations.

3. PURPOSE OF VISUAL TRAINING AIDS

a. The purpose of training films, film bulletins, and film strips is to present a military subject in a vivid, interesting, and accurate manner. They are designed as aids to teaching and learning. By themselves, films have only limited value in training. When used in accordance with sound principles of military instruction by a resourceful instructor, however, they are invaluable

training aids. Films supplement but do not supplant the work of instructors. Films often accelerate the rate of learning and tend to develop teamwork.

b. On the other hand, improper use of films may endanger a training program. Soldiers can be expected to learn little from training films when they are marched into a hot classroom or recreation hall, and forced to sit through the showing of a series of unrelated films for a prolonged period. This is especially true if they are given no indication of what they are to see, what they should look for, or how these films are related to their present or future duties. Similarly, the materials presented in films will not be learned well unless the showing of films is followed by examinations, discussions, or other appropriate applicatory exercises.

4. ADVANTAGES OF FILMS The chief advantages of training films, film bulletins, and film strips as training aids are due to a number of factors, including the following:

a. Instruction is standardized.

b. Films emphasize fundamentals.

c. Films bring demonstrations of tactical exercises or equipment to the troops, thus eliminating the time-consuming factor of moving troops to demonstration areas.

d. The same demonstration can be performed repeatedly without expending the time and labor necessary to repeat such demonstrations in the field.

e. Every man in a group can see and hear all phases of an action which otherwise could be observed satisfactorily only by those close to the scene. Greatly enlarged close-ups of minute details can be shown with ease.

f. The most highly trained troops and expert instructors are utilized in demonstrating the methods and techniques illustrated in the film.

g. By means of animation, slow motion, time lapse, miniature, and micro-photography, motion pictures show normally hidden action which cannot be shown by other instructional aids.

h. Every film follows sound principles of military training.

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Section II

Recommended Use of Training Films, Film Strips, and Film Bulletins

5. USE OF TRAINING FILMS The use of films in military training involves the same principles of sound teaching found so necessary and effective in the case of other materials of instruction. The following procedure, if used properly by the instructor, will increase the effectiveness of instruction with films.

a. Integrate Film in Training Program. The instructor should remember that training films will serve several purposes.

(1) They will orient the soldier—introduce him to new duties, operations, or procedures.

(2) They will develop proper attitudes, build morale, or stimulate interest.

(3) In many cases they will instruct the soldier in the specific details of a subject. A soldier seldom becomes proficient in a subject by merely looking at a film. Usually he learns how to do a job by actually doing the job. However, having learned how a specific procedure should be carried out from seeing a training film, the mastery of the details involved follows swiftly.

b. Preview Film to Find Out What Is in It. The instructor cannot use a training film effectively unless he has carefully previewed and studied the film in advance. No training film is perfect. The instructor should select the key points of emphasis, the items which may be omitted or touched upon lightly, and the portions which are obsolete or need explanation. He should plan in advance the necessary introductory and follow-up activities which he will use. In addition, he should determine in advance, whether the showing of the film should be broken into several parts.

c. Introduce Film. Every instructor should prepare his group for observing the training film in a purposeful manner. He may do this in several ways, such as telling the soldiers what the film is about and why it is shown, its battle importance, the key points to observe, and the relation of the film to his earlier training and experience or to his future duties. Similarly, he may introduce the film by raising a series of questions, setting up problems which the film will solve, giving a demonstration, or in other ways prepare the soldiers to observe the film to greatest advantage. Such procedures are important. They make the difference between merely showing training films or using them effectively as training aids.

d. Show Film. The instructor will remain with his group during the screening of the film. Although every advanced precaution may have been taken, the instructor must be ready to make adjustments should any unforeseen difficulties occur in screening the film. It is not wise to show films for too long a period. Consequently, it may be desirable to break up the showing of a long training

film into several parts. The instructor may introduce variations in order to maintain interest, such as turning off the sound at a prearranged point and giving his own oral commentary. For example, this may be done in connection with an obsolete portion of a film, or for other necessary local adaptations. However, such commentary should be in conformance with approved War Department doctrine.

e. Follow-up Activities. Carefully planned follow-up activities increase the effectiveness of training films. Such exercises emphasize and clarify the subject being taught.

(1) The contents of the film and the facilities available will determine the nature of the follow-up exercises used. In some instances, the soldier may apply immediately in practice the lessons learned from the film. For example, a film on the subject of adjustment of the service gas mask may be followed immediately by gas mask drill. Similarly, a film on map reading may be followed by a period devoted to reading various types of maps.

(2) In some cases, however, it may be impractical or undesirable for the troops to carry out immediately the processes portrayed in the film. For example, the film may give information concerning material which is not readily available. In such cases, an oral discussion immediately after the showing of the film will help to emphasize those points which are of greatest importance. Similarly, oral or written quizzes may be used to advantage in such cases. If questions are of the type to which "yes" or "no" answers can be given, "Quiz

Cards" may be used. Such discussions or examinations should be built around the key points of the film; they should not stress nonessentials.

(3) The versatile instructor will use demonstrations to follow up a film. For example, the showing of a film on camouflage may be followed by exhibits which present illustrations of good and bad camouflage. Local demonstrations of certain situations shown in a film are often effective. All activities of this type help to drive home the lesson which a film is designed to teach, heighten the interest of the soldiers, and determine the extent to which the materials have been mastered.

(4) Good follow-up exercises help to integrate training films with other types of training activities.

f. "Fighting Men" Series. In addition to the films appropriately integrated in the training program, the following films of the "Fighting Men" series should be seen by every combat soldier. Commanders are responsible that these films are not shown too early in the training cycle.

Serial No.	Subject
TF 21-1007.....	Snafu.
21-1018.....	Keep It Clean.
21-1019.....	Crack That Tank.
21-1020.....	How to Get Killed—In One Easy Lesson.
21-1021.....	Wise Guy.
21-1024.....	Kill or Be Killed.
21-1025.....	Curiosity Killed a Cat.
21-1026.....	On Your Toes.
21-1027.....	Latrinograms.
21-1028.....	Heroes.
21-1 029.....	On Your Own.
21-2014.....	Baptism of Fire.
21-2015.....	Secret Weapon.

6. USE OF FILM STRIPS

a. Careful previewing and studying of a film strip are essential to its effective use. Without such a preview, the instructor cannot plan his lesson or use his film strip to maximum advantage as an aid to his instruction. In some cases, Illustrated Instructor's References are issued to help the instructor to do this essential planning.

b. Some film strips resemble training films in that the frames present a logical development of the subject in a continuous fashion. In such cases, the instructor will build his lesson around the film strip in much the same manner that he builds his lesson around a training film. This is especially true in the case of a limited number of subjects which are covered by sound film strips, such as FS 30-3.

c. However, other film strips are prepared like a series of charts. The instructor may use such film strips, or only a certain number of frames in them, to implement the teaching of some specific phase of his lesson.

d. The success with which film strips are used depends not only on careful advance planning, but also on the manner in which the film strips are presented to the soldiers, the effectiveness of the instructor's commentary, and the degree to which the materials presented by the use of film strips are applied to specific practical situations. Typically, film strips can be used most effectively in the instruction of small groups.

e. The projection of film strips is a simple process, and if a shadow box is available or some similar arrangement is made, film strips can be shown in rooms which are only partially darkened, or out of doors if the necessary electrical current is available. (See TM 21-250.)

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Section III

Distribution

7. GENERAL Training films, film strips, and projection equipment are distributed by the Chief Signal Officer to using units of Army Ground Forces and Army Service Forces by means of a film library system operated by the service commands. The procedure for the distribution of films and projection equipment described below applies to all elements of the Army of the United States except the Army Air Forces. The method of distribution for Army Air Forces is described in AAF Regulation No. 65-4. Army Air Force units located at Army Ground Force, or Army Service Force stations and in foreign stations are supplied by the Chief Signal Officer through service command, department, or theater facilities, or may be served by such additional facilities as the Army Air Forces may establish. Otherwise, defense commands and theaters of operations are supplied by the Chief Signal Officer.

8. FILM LIBRARIES

a. Central Libraries. A central distribution library is maintained at the headquarters of each service command. These libraries are stocked with all films approved for training. The central library provides a film distribu-

tion service, on a temporary loan basis, to all organizations within the service command or department. Loan requests are addressed to the commanding general of the service command with instructions as to the number, title, and size (16-mm or 35-mm) of the film required. The central library also maintains a depot stock of films which is used for reorders and replacements to sublibraries serving Army Ground Forces and Army Service Forces units.

b. Sublibraries. Training film sublibraries are established at major troop concentrations within the continental United States and at oversea bases. The purpose of the sublibrary is to make immediately available for the troops it serves the films for which there is relatively constant training need. Other subjects for which there is only occasional demand are obtained from the central library on temporary loan.

c. Auxiliary Libraries. These are branch libraries under the control of either the local sublibrary or the central library. They are established for convenience of schools and units engaged in specialized training that demonstrate a recurring need for a selected group of films. They are stocked and supervised either by the sublibrary or the central library.

d. Reception Center Libraries. These libraries are established at reception centers and supplied with films by the central library of the service command. The stock consists of the following basic training subjects, arranged in order of recommended use:

Serial No.	Subject
TF 8-154.....	Sex Hygiene.
8-155.....	Personal Hygiene.
11-157.....	Military Courtesy and Customs of the Service.
11-235.....	Articles of War.
8-33.....	First Aid, Parts I-III.
8-150.....	First Aid, Part IV—Injuries and Accidents.
7-248.....	Instruction of the Soldier, Dismounted, Without Arms, Position and Facings.

9. DISTRIBUTION OF TRAINING FILMS AND FILM BULLETINS

a. Initial Distribution.

(1) Approximately 40 days prior to the release of a training film or a film bulletin, a film digest is sent to each central library and sublibrary. The officer in charge, in consultation with training officers, uses this digest to appraise the content of the film. If it pertains to the kind of training carried on at the camp or post where the sublibrary is located, a request for one or more prints is sent immediately to the central library at the headquarters of the service command. The requests from all the sublibraries are coordinated by the central library. The requirements of the loan and depot sections of the central library likewise are determined. A consolidated order, bearing all the requests from the service command, is sent by the service command to the Signal Corps Photographic Center, 35-11 35th Avenue, Long Island City, New York. As soon as the film is approved for training and processing of duplicates is completed, prints are distributed directly to the central library and sublibraries in accordance with instructions of the basic order from the service command.

(2) The Signal Corps Photographic Center supplies only those films and film strips which have been approved for use by the Commanding Generals of the Army Ground Forces and Army Service Forces. It does not have authority to procure and distribute commercial films unless these films are first approved for training. The current approved list is contained in this manual. A request for a film that does not have War Department approval for distribution to troops should be addressed to the command responsible for such approval.

b. Reorders. When a demand develops in a sublibrary for an approved film that was not obtained on initial distribution, or when the number of prints of a new film on hand is insufficient to meet the demand, the sublibrary orders additional prints from the depot stock of the central library. The central library in turn replenishes its reserve stock through periodic reorders from the Signal Corps Photographic Center.

c. Excess Stock. If the sublibrary finds that it has more prints of a film than it requires, it returns the excess to the central library. Likewise, all films that are not booked one or more times within a 3-month period should be returned to the central library.

d. Damaged Films. Even when shown by trained projectionists, films occasionally become broken, torn, scratched, and otherwise damaged. Minor breaks and tears can be repaired with splicing equipment in the sublibrary. A severely damaged print is sent to the central library and exchanged for one in good condition. The central library accumulates damaged prints and makes periodic shipments to the Signal Corps Photographic

Center where the films are repaired and returned to circulation.

e. Obsolete Films. All prints of a film that is declared obsolete are immediately withdrawn from circulation. The film is unwound from the metal reels and disposed of in accordance with paragraph 26, AR 105-260. The empty reels and cans are sent to the central library which ships them to the Signal Corps Photographic Center.

f. Stock Control. Reports on film stock and use in each sublibrary are requested periodically by the central library. The reports are used to gage the rate of showing films throughout the service command and to estimate the size of replacement stock required. An inventory of all films will be kept by each film library on the monthly Film Library Report SAU-12.

10. DISTRIBUTION OF FILM STRIPS Supply of film strips is essentially the same as that of training films. Film strips are deposited in film libraries for use by using units. If a film strip is used frequently by a troop unit, it may be obtained from the local library for permanent retention.

11. DISTRIBUTION OF PROJECTION EQUIPMENT Distribution of new projection equipment is made by requisition on the Signal Corps Photographic Center. These requisitions must be approved by the central library. Shipment is made either in bulk to the central library or directly to the sublibraries, depending upon shipping instructions accompanying the requisitions.

12. SERVICE OF FILM LIBRARY

a. Loan of Films and Equipment. The film library is a central depository for films and projection equipment. The main function of the library is to make these materials readily available to all training personnel. Motion picture projectors and films are loaned to training officers on a daily or hourly basis. Film strip projectors and film strips often are loaned for longer periods of time.

b. Film Previews. Regularly scheduled previews of new training films and film bulletins constitute an important part of the service of the film library. Library facilities also are always available for instructors who desire to preview films before showing them to classes.

c. Film Catalogs. The local film library publishes a list of all films that are kept in the library. This list is kept up to date through periodic supplements. The list is intended for use by training officers and other interested personnel. If a training officer wishes to view a film that is not on the list, the sublibrary will obtain it on loan from the central library. Films that are used regularly are retained permanently by the sublibrary.

d. Training of Projectionists. The library trains projectionists from the various units that use films, so that films are handled and shown only by trained personnel. Qualified projectionists are given an operator's permit by the library. (See TM 11-401.)

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Section IV

Lists

13. SOUND TRAINING FILMS The following lists show training films issued by serial number, title, year released, and running time.

SOUND TRAINING FILMS

I.F. Serial No.	Year released	Subject	Running time (minutes)
1-133	1940	Modern Weather Theory and Structure of Storms—Primary Circulation.	19
1-134	1940	Modern Weather Theory and Structure of Storms—Development and Characteristics of Atmospheric Waves.	14
1-136	1941	Aircraft Engines—Elements of Electricity as Applied to Ignition Systems.	27
1-137	1941	Aircraft Engines—Carburetion.	36
1-153	1941	Modern Aladdin's Lamp.	22
1-159	1942	Aircraft Machine Gun Sights—Harmonization.	16
1-160	1941	Aerodynamics—Air Flow.	18
1-161	1941	Aerodynamics—Forces Acting on the Air Foil.	26
1-162	1942	Airplane Hydraulic Brakes—Principles of Operation.	19
1-163	1942	Synchronization of Aircraft—Principles of Synchronization.	8
1-174	1941	Airplane Hydraulic System—BC-1 Airplane.	19
1-204	1942	Celestial Navigation—Position Finding on the Earth.	15
1-206	1942	Telegraph Printer—Operation.	15
1-207	1942	Telegraph Printer—General Principles.	7
1-208	1942	Telegraph Printer—Transmitting Mechanism.	9
1-209	1942	Telegraph Printer—Receiving and Printing Mechanism.	12

1-210	1942	Telegraph Printer—Assembly and Installation.	17
1-211	1941	Airplane Structures—Structural Units, Materials and Loads for which Designed.	8
1-212	1941	Airplane Structures—Wing Construction.	10
1-213	1941	Airplane Structures—Fuselage Construction.	8
1-215	1942	Airplane Structures—Alighting Gear.	10
1-222	1942	Small Arms Ammunition—.50, .30, and .45 Caliber Cartridges.	9
1-226	1942	Aerial Bombs—Fusing and Loading.	13
1-227	1941	Aerial Bombs—Practice.	13
1-229	1941	Wizardry of Wirelss.	19
1-238	1942	Tow Targets—Launching.	17
1-239	1941	Tow Target Equipment, Operation and Maintenance—C-5 Windlass.	16
1-245	1943	Aerial Navigation—Maps and the Compass.	15
1-246	1942	Airplane Propeller—Principles and Types.	17
1-247	1942	Synchronization of Aircraft—Installation and Adjustment.	27
1-255	1941	Aerial Bombs—Equipment for Loading Bombs.	17
1-256	1942	Aerial Bombs—Methods of Loading Bombs.	18
1-258	1942	Identification of Aircraft—General Characteristics and Types of U. S. Military Airplanes.	8
1-259	1941	Identification of Aircraft—Distinguishing Features of U. S. Military Airplanes.	15
1-260	1942	Aircraft Machine Guns and Cannon—.50 Caliber Machine Gun, Stripping and Assembly.	19
1-261	1942	Aircraft Machine Guns and Cannon—.50 Caliber Machine Gun, Operation.	15

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
1-267	1941	Airplane Structures—Alighting Gear, P-40 Series.	17
1-277	1942	Theory of Bombing.	19
1-285	1942	Airplane Propellers—Hamilton Constant-Speed, Theory and Operation.	12
1-286	1942	Airplane Propellers—Hamilton Constant-Speed, Removal and Disassembly.	20
1-287	1942	Airplane Propellers—Hamilton Constant-Speed, Servicing and Inspection.	22
1-288	1942	Airplane Propellers—Hamilton Constant-Speed, Reassembly and Adjustment.	37
1-289	1942	Airplane Propellers—Hamilton Constant-Speed, Installation.	9
1-290	1942	Celestial Navigation—Introduction and Location of Celestial Points.	18
1-292	1942	Airplane Antennas—Types and Typical Installation.	23
1-294	1941	Identification of Aircraft—Characteristics of Foreign Aircraft—German Pursuits Me-109.	8
1-305	1942	Airplane Hydraulic Brakes—Types, Construction, and Action.	29
1-306	1942	Airplane Hydraulic Brakes—Brake Adjustment, Bendix Brakes, Single Service.	9
1-307	1942	Airplane Hydraulic Brakes—Brake Adjustment, Hayes and Goodyear Brakes.	17
1-308	1942	Airplane Hydraulic Brakes—Servicing the Brake Line.	20
1-309	1942	Airplane Hydraulic Brakes—Care and Maintenance of Hydraulic Brake-Actuating Cylinders.	13

1-310	1941	Curtiss Electric Propeller—Removal and Disassembly.	10
1-311	1942	Aircraft Machine Guns and Cannon—The 37-mm Automatic Cannon, Stripping and Assembling.	31
1-312	1942	Airplane Structure—Static Testing.	12
1-313	1942	Physiology of High Altitude Flying.	35
1-323	1942	Airplane Structures—Manufacturing Methods.	25
1-326	1942	Aerial Navigation—Dead Reckoning Procedure:	26
1-327	1942	Aerial Navigation—Radio Aids.	29
1-328	1942	Aerial Navigation—Airways Flying.	29
1-329	1942	Aerial Navigation—Search and Interception:	18
1-330	1942	Aerial Navigation—Radius of Action.	10
1-331	1942	The Automatic Pilot—The Directional Gyro:	9
1-332	1942	The Automatic Pilot—The Gyro Horizon.	9
1-373	1942	Identification of Aircraft—Focke-Wulf Kurrier FW 200.	16
1-400	1942	Tactics and Technique of Air Reconnaissance and Observation:	14
1-401	1943	Aerial Bombs. Part V—Effects of.	8
1-402	1943	Soldering Electrical Connections.	18
1-403	1942	Field Lighting Set B-2—Use.	7
1-404	1942	The Type B-2 Field Lighting Set—Adjustment:	24
1-405	1943	A-5 Automatic Pilot—Operations.	15
1-406	1942	Fighter Aviation in Air Defense—Observation, Control and Interception:	17
1-408	1943	Fighter Aviation in Air Defense—Aircraft Warning Service.	10

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
1-410	1943	The Fighter Squadron—Its Organization and Administration.	17
1-412	1943	Air Forces Ground Radio Equipment—The SCR-188A.	19
1-415	1943	Training of Aerial Gunners (Fixed)—Ground Targets.	20
1-416	1943	Training of Aerial Gunners (Fixed)—Aerial Targets.	16
1-417	1942	Identification of Aircraft—Italian Bombers Cantiere Z-1007.	8
1-418	1942	Identification of Aircraft—The Wellington.	9
1-419	1942	Identification of Aircraft—Beaufighter.	6
1-421	1942	Identification of Aircraft—Japanese Navy Scouting Seaplane 95.	7
1-422	1942	Identification of Aircraft—Japanese Patrol Bomber 97.	8
1-424	1942	Identification of Aircraft—British Hurricane.	6
1-425	1942	Identification of Aircraft—Japanese Biplanes, Navy Fighter 95 and Navy Torpedo Bomber 96.	13
1-426	1942	Identification of Aircraft—British Hampden Bomber.	4
1-427	1942	Identification of Aircraft—Japanese Fighter-Bombers, Seversky Nakajima 98.	10
1-428	1942	Identification of Aircraft—The Heinkel He-115.	6
1-429	1942	Identification of Aircraft—The Whitley.	5
1-430	1942	Identification of Aircraft—Bristol Blenheim and Bristol Beaufort.	7

1-431	1942	Identification of Aircraft—The Japanese Medium Bomber 98:	9
1-433	1942	Identification of Aircraft—Halifax Bomber.	5
1-434	1942	Identification of Aircraft—German Bombers, Ju-87 and Ju-88.	10
1-435	1942	Identification of Aircraft—Heinkel III K, MK, V.A.	6
1-436	1942	Identification of Aircraft—Japanese Medium Bombers 96 and 97:	16
1-437	1942	Identification of Aircraft—Japanese Light Bombers 96 and 97:	9
1-438	1942	Identification of Aircraft—British Pursuits, Spitfire.	4
1-439	1942	Identification of Aircraft—Japanese Fighters 96 and 97.	11
1-440	1942	Identification of Aircraft—Messerschmitt Me-110.	7
1-442	1942	Identification of Aircraft—Macchi 200.	7
1-443	1942	Identification of Aircraft—German Ju-52.	5
1-444	1942	Identification of Aircraft—British Stirling Bomber.	4
1-445	1942	1820 Wright Engines—Removing Cylinders and Nose Section.	10
1-446	1942	1820 Wright Engines—Disassembling the Power Section.	15
1-447	1942	1820 Wright Engines—Disassembling the Supercharger Section.	18
1-448	1942	1820 Wright Engines—Disassembling the Nose.	6
1-449	1942	1820 Wright Engines—Disassembling the Crankshaft.	9
1-450	1942	1820 Wright Engine—Cleaning Up.	20
1-451	1942	Airplane Propellers—Hamilton Hydromatic, Theory and Operation.	16
1-452	1942	Airplane Propellers—Hamilton Hydromatic, Removal.	10
1-453	1942	Airplane Propellers—Hamilton Hydromatic, Servicing:	8

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
1-454	1942	Airplane Propellers—Hamilton Hydromatic, Reassembly and Adjustment.	47
1-455	1942	Airplane Propellers—Hamilton Hydromatic, Installation.	13
1-456	1942	Airplane Propellers—Curtiss Electric, Disassembly of the Power Unit.	26
1-457	1942	Airplane Propellers—Curtiss Electric, Disassembling the Hub and Blades.	14
1-458	1942	Airplane Propellers, Curtiss Electric Propeller, Disassembling the Governor.	22
1-459	1942	Airplane Propellers, Curtiss Electric Propeller, Reassembling the Power Unit.	35
1-460	1942	Airplane Propellers, Curtiss Electric Propeller, Reassembling the Hub and Blades.	22
1-461	1942	Airplane Propellers, Curtiss Electric Propeller, Reassembling the Governor.	23
1-462	1942	Airplane Propellers, Curtiss Electric Propeller, Balancing.	18
1-463	1942	Airplane Propellers, Curtiss Electric Propeller, Theory and Operation.	30
1-464	1942	Airplane Propellers, Curtiss Electric Propeller, Installation.	12
1-465	1943	Sea Rescue Equipment for Airplane Crews—One-Man Sea Rescue Equipment.	13
1-466	1943	Sea Rescue Equipment for Airplane Crews—Inspection and Maintenance.	25
1-468	1942	Airplane Propellers—Hamilton Hydromatic, Disassembly.	26
1-469	1943	Airplane Turrets—Emerson Nose and Tail Turret, Operation and Servicing.	33
1-470	1942	Vacuum Tubes—Electron Theory and the Diode Tube.	16

1-471	1942	Vacuum Tubes—The Triode and Multi-Purpose Tubes.	14
1-472	1942	Radio Receivers—Principles and Typical Circuits.	17
1-473	1943	Airplane Turrets—Crocker-Wheeler Training Turret.	22
1-474	1942	Radio Antennas—The Creation and Behavior of Radio Waves.	11
1-475	1942	Radio Antennas—Fundamentals of the Antenna.	12
1-476	1942	Radio Transmitters—Principles and Typical Circuits.	18
1-480	1943	Aircraft Machine Guns and Cannon—.30 Caliber Machine Gun—Stripping and Assembling.	18
1-482	1942	Aircraft Machine Guns and Cannon—20-mm Aircraft Gun—Stripping and Assembling.	37
1-483	1942	Aircraft Machine Guns and Cannon—Care and Cleaning.	25
1-484	1943	The A-N Gun Camera—Operation and Installation.	12
1-486	1942	Swim and Live.	21
1-487	1942	Oxygen Equipment—Types and Use at High Altitudes.	23
1-488	1943	Oxygen Equipment—Servicing Equipment in Airplane.	10
1-489	1943	Oxygen Equipment—Servicing High Pressure Removable Cylinders.	10
1-492	1942	Formation Flying (Basic).	8
1-494	1942	Gentle, Medium, Steep Climbing, and Gliding Turns.	11
1-495	1942	Chandelles.	7
1-497	1943	High Level Bombing.	7
1-499	1942	Airplane Hydraulic Brakes—Brake Adjustment—Bendix Brake (Duo Servo).	16
1-500	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly—The Hayes Shoe Brake.	21
1-501	1943	Airplane Hydraulic Brakes—Disassembly and Reassembly of Bendix Shoe Type Brake.	10

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
1-502	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly—The Goodyear Disc Brake.	15
1-503	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly—The Hayes Expander Tube Brake.	11
1-504	1943	Airplane Hydraulic Brakes—Proper and Improper Utilization of Brakes.	6
1-505	1943	Acrobatics.	19
1-506	1942	Plan Your Practice Solos.	13
1-507	1942	The Automatic Pilot—Basic Principles.	10
1-508	1942	The Automatic Pilot—The Automatic Pilot A-2—Mechanics.	18
1-509	1942	Automatic Pilot—A-2 Automatic Pilot Operation.	12
1-510	1943	The A-5 Automatic Pilot—Basic Principles.	7
1-511	1942	Aircraft Alighting Gear—Removal of Nose Alighting Gear.	6
1-512	1942	Aircraft Alighting Gear—Installation of Nose Alighting Gear.	6
1-513	1942	Aircraft Alighting Gear—Removal of Main Alighting Gear.	8
1-514	1942	Aircraft Alighting Gear—Installation of Main Alighting Gear.	5
1-515	1942	Aircraft Alighting Gear—Inspection of Alighting Gear.	10
1-516	1942	Aircraft Alighting Gear—Maintenance of Alighting Gear.	13
1-517	1942	The Sensitive Altimeter—General Use.	18

1-519	1942	Aircraft Alighting Gear—Assembly of the Alighting Gear Shock Strut.	22
1-522	1942	Identification of Aircraft—Two-Engine Fighter Quiz.	6
1-532	1942	Preflight Inspection of the B-17E—The Crew Chief.	41
1-533	1942	Preflight Inspection of B-17E—The Radio Mechanic.	30
1-534	1942	Preflight Inspection of the B-17E—The Armorer.	31
1-536	1942	Parachutes—Construction and Types.	10
1-537	1942	Parachutes—Folding and Packing the Service Seat Parachute.	17
1-538	1942	Parachutes—Folding and Packing the Form-Fitting Back Parachute.	6
1-539	1942	Parachutes—Folding and Packing the Training Double Parachute.	12
1-540	1942	Parachutes—Folding and Packing the Attachable Parachute.	8
1-541	1942	Parachutes—Adjustment of Harness.	16
1-542	1942	Parachutes—Maintenance.	17
1-543	1943	Parachutes—Use of the Parachute.	8
1-544	1942	Celestial Navigation—Bearings, Line of Position, and Fixes.	19
1-545	1942	Celestial Navigation—Latitude by Polaris.	9
1-546	1942	Celestial Navigation—Time.	10
1-547	1942	Celestial Navigation—Constellations and Navigational Stars.	12
1-548	1942	Celestial Navigation—Landfall Flight.	14
1-550	1942	Celestial Navigation—Solution of Illustrative Problems in Celestial Navigation.	31
1-566	1942	Servicing the Aviation Spark Plug.	23
1-619	1942	Identification of U. S. Army Aircraft—B-25 Medium Bomber.	10

SOUND TRAINING FILMS

I.F. Serial No.	Year released	Subject	Running time (minutes)
1-674	1942	Interrogation of Prisoners—Aviation.	36
1-700	1943	Airplane Structures—Control Surfaces.	7
1-701	1942	The Allison Engine—The V1710 Engine—Introduction and Characteristics.	8
1-702	1942	The Allison Engine—The V1710 Engine—Unpacking.	25
1-703	1942	The Allison Engine—The V1710 Engine—Removing the Reduction Gear Assembly.	20
1-704	1942	The Allison Engine—Disassembly of the Cylinder Blocks on the V1710 Engine.	14
1-705	1942	The Allison Engine—Disassembly of the Reduction Gear, V1710 Type F Engine.	18
1-706	1942	The Allison Engine—Disassembly of the Reduction Gear, V1710 E Engine.	20
1-707	1942	The Allison Engine V1710—Disassembly of the Accessory Housing.	33
1-708	1942	The Allison Engine—Disassembly of Crankshaft Unit.	17
1-709	1942	The Allison Engine V1710—Tear-down Inspection.	8
1-710	1942	Allison Engine—Reassembling the Reduction Gears, V1710 Type F Engine.	30
1-711	1942	The Allison Engine—Reassembling the Reduction Gears, V1710 Type E Engine.	25
1-712	1942	The Allison Engine—Reassembling Cylinder Blocks.	25
1-713	1943	Preflight Inspection of Bombing Equipment—The B-24 Liberator.	10
1-714	1942	The Allison Engine V1710—Reassembling of Crankshaft Unit.	26

1-715	1943	The Allison Engine V1710—Reassembling the Complete Engine.	39
1-716	1943	The Allison Engine V1710—Timing the Engine.	31
1-717	1943	The Squadron Communications Officer.	22
1-718	1942	The O-52 Airplane and its Communication Facilities.	26
1-719	1942	The Allison Engine V1710—Reassembly of the Accessory Housing—Preliminary Assembly.	14
1-720	1942	The Allison Engine V1710—Reassembly of the Accessory Housing—Bench Assembly.	22
1-721	1942	The Allison Engine V1710—Reassembly of the Accessory Housing—Final Assembly.	19
1-722	1943	The A-N Gun Camera—Scoring of Gun Sight Aiming Point Films.	19
1-724	1943	Camouflage of Airdromes. (<i>Color.</i>)	28
1-725	1943	Operation of the Landing Gear of the AT-9 Airplane.	7
1-726	1943	Modern Weather Theory and Structure of Storms—Weather in Various Parts of an Occluded Wave.	24
1-727	1943	Harmonizing Noncompensating Sights.	16
1-728	1942	Preparation of Aircraft Engines for Storage—Preservation.	25
1-729	1942	Preparation of Aircraft Engines for Storage—Retreatment and Preparation for Service.	13
1-730	1943	Aircraft Radios—Operation and Procedure.	16
1-731	1942	Disassembly of the P-40—Removal of Engine Cowling and Keel Fairing.	10
1-732	1942	Disassembly of the P-40—Oil and Coolant Radiators.	7
1-733	1942	Disassembly of the P-40—Movable Control Surfaces.	11
1-734	1942	Disassembly of the P-40—Fixed Tail Surfaces.	5
1-735	1942	Disassembly of the P-40—Radio Equipment.	7

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T.F. Serial No.	Year released	Subject	Running time (minutes)
1-736	1942	Disassembly of the P-40—Separation of Fuselage and Wing.	19
1-737	1942	Disassembly of the P-40—Fuel Tanks.	15
1-738	1942	Disassembly of the P-40—Landing Gear.	13
1-739	1942	Disassembly of the P-40—Armament.	8
1-740	1942	Disassembly of the P-40—Wing Panels.	13
1-741	1942	Disassembly of the P-40—The Allison Engine.	14
1-742	1942	Disassembly of the P-40—Canopy and Windshield.	8
1-743	1942	Disassembly of the P-40—Instrument and Switch Panels.	7
1-744	1942	Disassembly of the P-40—De-Icer, Coolant, and Oil Tanks.	7
1-745	1942	Disassembly of the P-40—Miscellaneous Equipment.	9
1-746	1942	Assembly of the P-40 Allison Engine (Including Bomb Racks).	15
1-747	1942	Assembly of the P-40—The Packard Engine.	
1-749	1943	Preflight Inspection of the B-24D—The Radio Mechanic.	27
1-750	1943	Packing the Troop Type Parachute.	38
1-751	1942	Identification of Aircraft—Single-Engine Fighter Quiz.	8
1-752	1943	Identification of Aircraft—Messerschmitt 109F.	4

1-753	1943	Identification of Aircraft—Focke-Wulf 190.	6
1-754	1942	Identification of Aircraft—Dornier 217.	5
1-755	1943	Identification of Aircraft—The British Lancaster.	7
1-756	1943	Airplane Engine Cooling Systems—For Mechanics (Liquid-Cooled Engine).	12
1-757	1943	Airplane Engine Cooling Systems—For Mechanics (Air-Cooled Engines).	14
1-758	1943	Airplane Engine Cooling Systems—For Pilots.	16
1-759	1943	Diagnosis of Machine Gun Stoppages.	15
1-761	1943	Flexible Aerial Gunnery—The Bullet Between You and Your Target.	6
1-762	1943	Flexible Aerial Gunnery—Arithmetic for Battle.	6
1-763	1943	Flexible Aerial Gunnery—Arithmetic Shoots Straight.	12
1-764	1943	Flexible Aerial Gunnery—Range Estimation.	7
1-766	1943	Preflight Inspection of the B-24D—The Crew Chief.	31
1-767	1943	The Radio Compass—Description and Operation.	17
1-768	1943	The Radio Compass—Maintenance and Trouble Shooting.	17
1-769	1943	The Radio Compass in Flight.	24
1-770	1943	Aircraft Instruments—Tachometer (Chrono.) Repair.	29
1-771	1943	Preflight Radio Inspection of Fighter Aircraft.	15
1-773	1943	Airplane Turrets—General Electric Turret System, Northrop P-61—Equipment, Operation and Servicing.	28
1-776	1943	Preflight Inspection of the C-47—The Crew Chief.	27
1-778	1942	Formation Procedure for Bad Weather Areas—For Bombers.	10
1-785	1943	Loading Aircraft Torpedoes. (<i>Confidential</i>)	19

SOUND TRAINING FILMS

I.F. Serial No.	Year released	Subject	Running time (minutes)
1-786	1943	Principles of Torpedo Bombing. (<i>Confidential.</i>)	15
1-787	1943	Torpedoes in Action. (<i>Confidential.</i>)	15
1-791	1943	P-38 Lightning—50-Hour Inspection—Airplane in General.	21
1-792	1943	P-38 Lightning—50-hour Inspection—Engines.	16
1-793	1943	P-38 Lightning—50-hour Inspection—Propellers.	17
1-794	1943	P-38 Lightning—50-hour Inspection—Fuel, Oil, and Cooling Systems.	16
1-795	1943	P-38 Lightning—50-hour Inspection—Electrical and Ignition Systems.	12
1-796	1943	P-38 Lightning—50-hour Inspection—Landing Gear and Hydraulic System.	20
1-798	1943	Training Group Administration.	32
1-799	1943	50-hour Inspection of Aircraft Engines and Navigation Instruments.	22
1-800	1943	Aircraft Instruments. Part I—Introduction.	13
1-801	1943	Aircraft Instruments—Line Maintenance.	7
1-802	1943	Aircraft Instruments. Part III—Depot Procedures.	31
1-803	1943	The Mission of the Air Transport Command.	22
1-804	1943	Weight and Balance Control of Transport Aircraft.	21
1-805	1943	Loading of Cargo Aircraft.	26

1-808	1943	Miscellaneous Cold Weather Operations of Aircraft.	17
1-809	1943	Engine Piston Cleaning.	10
1-810	1942	Airplane Turrets—Bendix Upper Turrets—Operation and Servicing.	17
1-811	1942	Airplane Turrets—Bendix Lower Turrets—Operation and Servicing.	19
1-812	1942	Airplane Gun Sights—Harmonization of Sperry Computing Sights.	10
1-813	1942	Airplane Turrets—Martin Upper Turret (Original Type)—Servicing and Operation.	21
1-814	1943	Airplane Turrets, Martin Upper Turret (Modified Type)—Servicing and Operation.	19
1-815	1943	Airplane Turrets—Sperry Lower Ball Turret, Operation and Servicing.	20
1-816	1943	Minor Repair of Metal-Covered Wings and Control Surfaces.	30
1-817	1942	Airplane Turrets—Sperry Upper Turret, Operation and Servicing.	12
1-818	1943	50-Hour Inspection of the B-24D—The Airplane in General.	8
1-819	1943	50-Hour Inspection of the B-24D—Engines and Propellers.	9
1-820	1943	50-Hour Inspection of the B-24D-P—Ignition and Electrical Systems.	9
1-821	1943	50-Hour Inspection of the B-24D—Fuel and Oil Systems.	13
1-822	1943	50-Hour Inspection of the B-24D—Hydraulics.	23
1-824	1943	50-Hour Inspection of the B-17F—Airplane in General.	17
1-825	1943	50-Hour Inspection of the B-17F—Engines and Propellers.	15
1-826	1943	50-Hour Inspection of the B-17F—Ignition and Electrical Systems.	22
1-827	1943	50-Hour Inspection of the B-17F—Fuel and Oil Systems.	17
1-828	1943	Airplane Gun Sights—Sperry Computing Sights K-3, K-4—Function and Operation.	9
1-829	1943	50-Hour Inspection of the B-17F—Hydraulics and Landing Gear.	16

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T.F. Serial No.	Year released	Subject	Running time (minutes)
1-830	1942	Airplane Gun Sights—Principles and Operation of Collimator Sights.	5
1-831	1942	Airplane Gun Sights—Maintenance and Adjustment of Collimator Sights.	20
1-832	1943	Theory of the S-1 Bombsight.	19
1-833	1943	The S-1 Bombsight—The Azimuth System.	8
1-834	1943	The S-1 Bombsight—Operation.	25
1-835	1943	The S-1 Bombsight—Preflight Inspection.	12
1-836	1943	The S-1 Bombsight—Conduct of a Mission.	16
1-838	1942	Airplane Fixed Guns in the P-38E.	19
1-839	1943	Airplane Fixed Guns in the P-40.	19
1-840	1943	Airplane Fixed Guns in the P-47B—Removal, Servicing, and Installation.	15
1-844	1943	Flutter and its Prevention.	17
1-846	1943	Common Errors Experienced in Take-Offs.	11
1-847	1943	The A-2 Portable Photographic Laboratory—Air Forces.	31
1-848	1943	Repairing Fabric-Covered Wings. Part I—Covering the Wings.	25
1-849	1943	Repairing Fabric-Covered Wings. Part II—Patching Damaged Fabric.	14
1-850	1943	Radiator Repair.	18

1-851	1943	Grinding, Honing, and Lapping of Cylinders.	19
1-852	1943	Leather Repair.	18
1-853	1943	Repairing Propeller Blades.	19
1-855	1943	B-26 Marauder—50-Hour Inspection—Airplane in General.	28
1-856	1943	50-Hour Inspection—B-26C Marauder, Engine and Propellers.	20
1-857	1943	B-26 Marauder—50-Hour Inspection—Ignition and Electrical Systems.	35
1-858	1943	B-26 Marauder—50-Hour Inspection—Fuel and Oil Systems.	24
1-859	1943	B-26 Marauder—50-Hour Inspection—Hydraulics.	40
1-861	1943	The Air Defense Team—Introduction.	9
1-862	1943	The Air Defense Team—Controlled Interception.	19
1-863	1943	The Air Defense Team—VHF Control Net System.	17
1-864	1943	The Air Defense Team—Intercept Board Operations.	19
1-865	1943	The Air Defense Team—Fighters-Searchlight.	12
1-867	1943	The Air Defense Team—Night Fighters.	10
1-869	1943	Technical Intelligence.	20
1-870	1943	Photographic Interpretation Technique.	20
1-871	1943	The Norden Bombsight. Part I—Principles.	21
1-872	1943	The Norden Bombsight. Part II—Operation.	13
1-873	1943	The Norden Bombsight. Part III—Preflight Inspection.	9
1-874	1943	The Norden Bombsight. Part IV—Conduct of a Mission.	14
1-875	1943	The Norden Bombsight. Part V—The Leveling System.	5

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T.F. Serial No.	Year released	Subject	Running time (minutes)
1-876	1942	Servicing the P-39—Wheels and Tires.	8
1-877	1942	Servicing the P-39—Removal and Installation of Main Wheel Spindle.	10
1-878	1942	Servicing the P-39—Removal and Installation of Landing Gear Struts.	7
1-880	1942	Servicing the P-39—Synchronizing the Aighting Gear.	20
1-884	1942	Cyclone Combustion.	25
1-887	1942	Servicing the Sodium-Cooled Aircraft Valve.	22
1-888	1942	How to Machine Aluminum.	31
1-889	1942	How to Weld Aluminum.	32
1-890	1942	How to Rivet Aluminum.	25
1-891	1942	Plexiglas.	19
1-892	1943	Minimum Altitude Bombing Attacks. (<i>Confidential.</i>)	17
1-893	1943	The Air Defense Team—Antiaircraft Artillery in Air Defense.	
1-900	1942	Identification of U. S. Army Aircraft—Douglas B-17F Heavy Bomber.	9
1-901	1942	Identification of U. S. Army Aircraft—B-24D Consolidated Heavy Bomber.	9
1-902	1942	Identification of U. S. Army Aircraft—A-20B Douglas Light Bomber.	10
1-904	1942	Identification of the U. S. Army Aircraft—A-24 Douglas Light Bomber (One-Engine).	9

1-905	1942	Identification of U. S. Army Aircraft—A-31 Northrop and Vultee (One-Engine) Light Bomber.	10
1-906	1942	Identification of U. S. Army Aircraft—P-38E Lockheed (2-Engine) Pursuit.	9
1-907	1942	Identification of U. S. Army Aircraft—C-54 and DC-4 Douglas 4-Engine Heavy Transport.	9
1-908	1942	Identification of U. S. Army Aircraft—C-47 and C-53 Douglas Medium Transport.	9
1-909	1942	Identification of U. S. Army Aircraft—The C-60A Lockheed (2-Engine) Medium Transport.	8
1-910	1942	Identification of U. S. Army Aircraft—The North American P-51 Pursuit.	11
1-912	1942	Identification of U. S. Army Aircraft—The P-39L Bell Pursuit.	9
1-1016	1943	Patrol Flight Overseas—Identification of Merchantmen.	29
1-1017	1943	Patrol Flight Overseas—Identification of Raiders.	19
1-3300	1943	Learn and Live.	45
1-3301	1943	How to Fly the B-26.	48
1-3302	1943	Recognition of the Japanese Zero Fighter.	20
1-3303	1943	Identification of the Japanese Zero Fighter.	8
1-3304	1943	Sustineo Alas.	22
1-3305	1943	Take-Offs and Landings—Take-Offs.	25
1-3306	1943	Photographic Intelligence in Bombardment Aviation;	23
1-3307	1943	Straight and Level Flight and Effect of Controls.	17
1-3308	1943	Use of Oxygen in Aviation.	9
1-3310	1943	Radio Operator.	20

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T.F. Serial No.	Year released	Subject	Running time (minutes)
1-3311	1943	Cadet Classification.	18
1-3312	1943	Army Flying Regulations.	13
1-3313	1943	Introduction to Flying.	9
1-3314	1943	Keep 'Em Flying.	32
1-3315	1943	Eyes Aloft.	17
1-3317	1943	Bombardier-Navigator.	14
1-3318	1943	Instrument Flight.	18
1-3320	1943	Advanced Formation Flying.	16
1-3321	1943	Troop Carrier Airplanes—Cockpit Procedure.	34
1-3322	1943	Troop Carrier Airplanes—Power-Controlled Approach and Landing.	15
1-3323	1943	Troop Carrier Airplanes—Performance of a Troop Carrier Mission.	13
1-3324	1943	Briefing and Interrogation of Combat Crews.	35
1-3326	1943	Interrogation of Enemy Airmen.	30
1-3327	1943	Air Force Intelligence.	30
1-3328	1943	Procedure in Pilotage and Dead Reckoning for Pilots.	37
1-3329	1943	Crew Observation—Synthetic Training.	8

1-3332	1943	Characteristics of the A-20 Airplane:	19
1-3335	1943	Emergency Care of Air Crew Casualties.	58
1-3336	1943	Technical Intelligence—Inspection of Captured Enemy Air Equipment:	20
1-3337	1943	Bombers over North Africa.	22
1-3340	1943	Photo Intelligence in Damage Assessment:	30
1-3349	1943	Military Airborne Construction.	
1-3350	1943	Glider Technique.	
1-3401	1943	Greenland Flight.	20
1-3402	1943	Radio Range Orientation.	19
1-3403	1943	Land and Live in the Arctic.	60
1-3600	1943	Recognition of Aircraft—British Quizcraft No. 1:	10
1-3601	1943	Recognition of Aircraft—British Quizcraft No. 2.	9
1-3602	1943	Recognition of Aircraft—British Quizcraft No. 3:	10
1-3603	1943	Recognition of Aircraft—British Quizcraft No. 4:	9
1-3604	1943	Recognition of Aircraft—British Quizcraft No. 5:	9
1-3605	1943	Recognition of Aircraft—British Quizcraft No. 6.	9
1-3606	1943	Recognition of Aircraft—British Quizcraft No. 7.	10
1-3607	1943	Recognition of the Martlet (F4F).	5
1-3608	1943	Recognition of the Catalina (PBV-5):	6
1-3609	1943	Recognition of the Mosquito.	6
1-3610	1943	Recognition of the Sunderland.	7

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I.F. Serial No.	Year released	Subject	Running time (minutes)
1-3611	1943	Recognition of the Typhoon I.	6
1-3612	1943	Recognition of the Albacore.	7
1-3613	1943	Recognition of the Barracuda.	6
1-3614	1943	Recognition of the Fulmar II.	5
1-3615	1943	Recognition of the Master III.	7
1-3616	1943	Recognition of the Hudson.	7
1-3617	1943	Recognition of the Baltimore.	8
1-3618	1943	Recognition of the Horsa Glider.	6
1-3619	1943	Recognition of the Blohm Voss 1381.	10
1-3620	1943	Recognition of the Focke-Wulf 189.	7
1-3621	1943	Recognition of the Heinkel 177.	6
1-3622	1943	Recognition of the ME 210.	10
1-3623	1943	Recognition of the Glider DFS-230.	4
1-3625	1943	Recognition of the Macchi 202.	5
1-3628	1943	Recognition of the Savoia Marchetti 84.	5
1-3633	1943	Recognition of the Dakota (C-47).	10
1-3634	1943	Ditching Without Hedging.	20

AF Serial No.	Year released	Subject	Running time (minutes)
<i>Army Air Forces Commercial and Miscellaneous Training Films</i>			
100	1942	The Rear Gunner. <i>Dramatized story of an enlisted man who receives aerial gunnery training, later being assigned to B-24 crew and going into actual combat. Stresses the importance of the aerial gunner in the combat crew.</i>	22
101	1942	Keep 'Em Up. <i>Deals with the care and maintenance of aircraft tires.</i>	25
102	1942	Make 'Em Last. <i>Deals with the care and maintenance of aircraft tires.</i>	17
103	1943	Installation, Maintenance and Service of Pistons, Piston Rings and Cylinders. <i>Explains the fundamental overhaul precautions to be observed in the installation, inspection and service of aircraft piston rings, pistons and cylinders. Describes removal of pistons, cleaning of pistons and rings, inspection of pistons, piston rings and cylinders. Emphasizes care in maintenance.</i>	35
104	1942	Meteorology—Fog. <i>Shows effect of height on temperature. Discusses humidity, dew and saturation points. Defines visibility distances, and explains cause of smoke and sea fog. A British film.</i>	22
105	1942	Meteorology—Ice. <i>Explains causes of and conditions conducive to formation of ice on aircraft. Gives details of cloud and humidity conditions as encountered in England. A British film.</i>	30
106	1942	Meteorology—Temperature and Winds. <i>Explains effect of solar radiation, sea and land temperatures; variation of temperature with height; temperature inversion and resulting clouds and fog; use of barometer and altimeter. A British film.</i>	41

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AF Serial No.	Year released	Subject	Running time (minutes)
107a	1943	How to Fly the P-47—Pilot Familiarization. <i>Describes flight characteristics of the P-47 Thunderbolt, including: service ceiling, speed, power plant, horsepower, fuel consumption, turbosupercharger system and regulator, water injection emergency system, use of turbo and throttle, landing gear and flaps, armament, firepower, switch and control panel; shows use of P-47 cockpit trainer.</i>	22
107b	1943	How to Fly the P-47—Ground Handling, Take-Off, Normal Flight, Landing. <i>Demonstrates procedure for ground handling, take-off, normal flight and landing of the P-47 Thunderbolt. Includes preflight and cockpit checks, warm-up, taxiing, cruising, banking, stalling; speeds for approaches, turns, altitude and landing; also, lowering of landing gear, and postflight checks.</i>	25
107c	1943	How to Fly the P-47—High Altitude Flight and Aerobatics. <i>Demonstrates the P-47 Thunderbolt in dives, loops, slow rolls, Immelman turns, spins and recoveries, and half-rolls. Stresses precautions and proper speeds for various altitudes. Also explains functions of turbosupercharger and water injection systems in high altitude flight.</i>	20
108	1942	Hitting Flying Targets. <i>Shows techniques of sheet shooting.</i>	15
109	1943	Flight Characteristics of the P-38. <i>Designed to introduce the new pilot to the P-38; a thorough description of starting procedures and preflight checks for the pilot; illustrates performance in the air.</i>	40
111	1943	How to Fly the P-40.	

113	1943	<i>A color film describing the characteristics of the P-40 airplane; includes fuel, cooling and emergency hydraulic systems; landing gear, wing flaps, boost and mixture controls; throttle and governor lever; concludes with precautions in starting, take-off, climbing, maneuvering, stalling, recoveries, approaches and landings.</i>	45
		<i>How to Fly the B-24.</i>	
		<i>Designed to introduce the pilot and co-pilot to the B-24 Liberator; discusses preflight checks for the pilot, and illustrates flight characteristics.</i>	
114	1943	<i>Report from the Aleutians.</i>	
		<i>A color film showing behind-the-line scenes in the Aleutians. Scenes of troops disembarking, supplies being unloaded, and life in camp. Construction of the airfield, and take-offs for daily missions. The picture ends with scenes taken on a bombing raid over Kiska.</i>	
117	1943	<i>Oil Fires and Their Extinguishment.</i>	
118	1942	<i>Keep 'Em Rolling.</i>	
		<i>Describes care, maintenance, and operation of the Clark airfield tractor.</i>	
119	1943	<i>Beyond the Line of Duty.</i>	25
		<i>An inspirational film describing the work of the bomber crew. Shows what takes place on typical bombing mission.</i>	
120	1943	<i>Central Station Fire Control System—Fundamentals.</i>	
121	1943	<i>Introduction to the P-39.</i>	40
		<i>The important features of the P-39 are explained to a student pilot by his instructor. Location of controls and their use are shown. Suggestions are made during the initial flight concerning flight characteristics of the P-39.</i>	
122	1943	<i>The Turbosupercharger—Flight Operation.</i>	10
		<i>Shows the exact procedures recommended for flying personnel in operating the GE turbosupercharger; shows specific things to do in order to obtain the best results from the turbosupercharger at take-off, during flight, and when landing.</i>	

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AF Serial No.	Year released	Subject	Running time (minutes)
123	1943	The Turbosupercharger—Master of the Skies. <i>Explains what the GE turbosupercharger is, how it is installed and maintained, the planes using this equipment, and its flight operation. Designed as an orientation film to introduce service and maintenance men to the broad picture of the turbosupercharger and its part in military aviation. Stresses the importance of proper maintenance and service.</i>	25
124A	1943	Aircraft De-Icers. Part I—Ice Formation and De-Icer Operation. <i>Outlines the theory of ice formation on aircraft, and explains principle of de-icer system operation.</i>	25
124B	1943	Aircraft De-Icers. Part II—Inspection and Maintenance of the De-Icer System. <i>Outlines procedures for inspection and maintenance of the de-icer system.</i>	30
124C	1943	Aircraft De-Icers. Part III—Removal and Storage of De-Icers. <i>Gives information on procedures for removing and storing de-icer systems.</i>	10
124D	1943	Aircraft De-Icers. Part IV—Installing De-Icers. <i>Shows mechanical steps involved in installing the de-icer system.</i>	30
125	1943	Care and Maintenance of Lucite and Plexiglas. <i>Discusses the care and maintenance of Lucite and Plexiglas in the field.</i>	40
127	1943	Uncratering and Assembly of the P-47. <i>General informational film showing the uncratering and assembly of the P-47 plane.</i>	40
128A	1943	Aeroproducts Propeller. Part I—Theory and Operation. <i>Discusses the theory and operation of the Aeroproducts propeller.</i>	20

128B	1943	Aeroproducts Propeller. Part II—Maintenance and Inspection: <i>Describes procedures for inspection and maintenance of the Aeroproducts propeller.</i>	20
128C	1943	Aeroproducts Propeller. Part III—Installation and Test. <i>Shows the removal, replacement, ground run-up, and flight test of the Aeroproducts propeller.</i>	20
129	1943	Servicing the P-39—Removal and Installation of .50 Caliber Fuselage Guns on the P-39. <i>Step by step procedures for removing and installing .50 caliber fuselage guns on the P-39.</i>	12
131	1943	Servicing the P-39—Removal and Installation of the .30 Caliber Wing Guns. <i>Shows the detailed procedure to be followed in removing the wing guns on the P-39.</i>	15
132	1943	Servicing the P-39—Boresighting All Guns. <i>Demonstrates the boresighting of 37-mm cannon, and .30 and .50 caliber guns of the P-39 airplane. Includes necessary preliminary disassemblies, procedures for leveling plane, aligning target, charging ammunition, and making gun sight adjustments.</i>	17
133	1943	Servicing the P-39—Removal and Installation of 37-mm M-4 Automatic Guns. <i>Describes the detailed procedures to be followed in removing and installing the M-4 37-mm guns on the P-39.</i>	30
135	1943	Double Wasp Magneto and Its Timing. <i>Describes operation of the Double Wasp magneto, and methods of timing.</i>	10
136	1943	Starting the Engines of the B-17. <i>Shows proper procedure for starting the B-17 engines under normal weather conditions, and the step-by-step use of all controls involved.</i>	14
137	1943	25-Hour Inspection of the B-17. <i>Points out the principal responsibilities of the crew chief and his mechanics in making a 25-hour inspection of the B-17.</i>	25
138	1943	Servicing the P-39—Removal, Installation and Adjustment of Empennage Assembly. <i>Gives a step-by-step demonstration of the removal and installation of rudder and elevator assemblies and trim tabs; procedure for making alignment and tension checks necessary to their proper adjustment; shows complete reassembly of empennage section.</i>	44

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AF Serial No.	Year released	Subject	Running time (minutes)
139	1943	Servicing the P-39—Removal and Installation of Aileron Tabs. <i>Illustrates detailed procedures involved in removing and installing aileron tabs on the P-39.</i>	13
141	1943	Servicing the P-39—Removal and Installation of Self-Sealing Fuel Tanks, and Adjustment of Fuel Level Gage. <i>A film for P-39 mechanics. Title self-explanatory.</i>	28
142	1943	Servicing the P-39—Synchronization of the Landing Gear. <i>Gives detailed procedure for servicing the landing gear on the P-39 airplane.</i>	25
143	1943	Servicing the P-39—Operation of Landing Gear Clutch Shift Rod. <i>Details operation of the P-39 landing gear clutch shift rod.</i>	
147	1943	Central Station Fire Control System—Turret Disassembly.	
148	1943	Central Station Fire Control System—Turret Assembly.	
149	1943	Servicing of Clark Fork Trucks. Part I—Preventative Maintenance. <i>Discusses first and second echelon maintenance, periodic inspection and general maintenance precautions for the Clark Fork Truck.</i>	15
150	1943	Servicing of Clark Fork Trucks. Part II—Major Repairs. <i>Describes procedures to be followed in making major repairs on the Clark Fork Truck.</i>	30
151	1943	Matériel Handling Methods in Army Air Forces Depots. <i>Discusses method of handling and moving materials in AAF storage depots.</i>	25
153	1943	Servicing the P-39—Removal and Installation of Cabin Glass, Door Hinges and Locks.	30

154	1943	<i>A maintenance film showing removal and installation of cabin glass, door hinges and door locks.</i>	18
155	1943	Servicing the P-39—Preflight and Daily Inspection.	
157	1943	Servicing the P-39—Servicing Landing Gear Struts and Nose Wheel Shimmy Damper. Shows procedures for servicing landing gear struts and nose wheel shimmy damper on the P-39.	16
159	1943	Servicing the P-39—Synchronizing the .50 Caliber Guns. Demonstrates the necessary checks and procedures for synchronizing the .50 caliber guns in the P-39 airplane, with emphasis upon preliminary adjustment of the trigger motor to determine correct "over-travel" and timing the impulse generator for the zero shot.	11
161	1943	Servicing the P-39—Removal and Installation of Generator, and Adjustment of Circuits. Demonstrates procedures for checks on generator power and generator circuit currents, including tests of batteries and generator, adjustment of voltage regulator before and after warm-ups, tests of field circuit and current relay, and necessary removals and installations.	19
162	1943	Servicing the P-39—Alignment Check of Engine, Extension Driveshaft, Gear Box and Propeller Shaft. Demonstrates the necessary disassemblies of fuselage sections preliminary to, and step-by-step procedure for, alignment check of engine, extension driveshaft, gear box and propeller shaft; concludes with reassembly of fuselage sections.	19
164	1943	Servicing the P-39—Procedure for Uncrating. Describes the proper method of handling and uncrating the parts and assemblies of the P-39 airplane contained in three separate shipping crates, with stress on use of proper tools and mechanical aids.	18
	1943	Servicing the P-39—Removal and Installation of Coolant Radiator and Expansion Tank. Demonstration of removal and installation of coolant radiator, expansion tank and auxiliary assemblies, incidental to servicing and refilling the coolant system of the P-39.	

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AF Serial No.	Year released	Subject	Running time (minutes)
166	1943	Servicing the P-39—Removal and Installation of Reduction Gear Box and Extension Driveshaft Assembly. <i>Shows the step-by-step procedure in the removal and installation of reduction gear box and extension driveshaft assembly; includes preliminary disassembly of fuselage sections, and reassembly of sections after work has been performed.</i>	19
176	1943	Inspection and Servicing of the Packard-built Rolls Royce Engine V-1650-1. <i>A detailed discussion of inspection and servicing procedures for the Packard Rolls Royce V-1650-1 engine.</i>	25
178	1943	Care and Handling of Aviation Gasoline. <i>Shows preliminary safety and impurity checks and the proper pressure and mechanical methods used in unloading and dispensing aviation gasoline from tank cars, storage tanks, trucks, trailers and drums; precautions and methods of storage; precautions and methods of transportation to refueling stations; precautions and methods of fueling airplanes from various vehicles and drums.</i>	5
179	1943	Power and Octane. <i>Illustrates and describes: physics of gas combustion, cylinder compression, ratio of compression to power, detonation, and malfunctions resulting from use of gas of improper octane content; elimination of knock by maintenance of proper pressure, temperature and mixture ratio; effects of leaning or enriching mixture on compression; laboratory tests, and use of Knockmeter.</i>	34
180	1943	Structures. <i>A technical film showing stresses on airplane wings, nacelles, and fuselages, with particular</i>	40

211a	1943	reference to the B-25.	16
		Theory of the C-1 Automatic Pilot. Part I—Basic Principles.	
		<i>A color film showing the functions of the four component parts of the C-1 automatic pilot—gyro, amplifier, current, and servo motor. Illustrates manner in which the instrument controls and corrects for pitch, roll and yaw; how potentiometers measure these deviations; how deviations are amplified, and how corrected automatically. Methods of changing course, and use in maintaining true headings.</i>	
211b	1943	Theory of the C-1 Automatic Pilot—The Control Panel.	16
		<i>Function of the C-1 automatic pilot is demonstrated in color. Includes animated description of: switches, lights, centering, sensitivity, and ratio controls used in making aileron, rudder and elevator adjustments; turning with the C-1 pilot; directional panel; various knobs, controls and trimmers.</i>	
212-A	1943	Operation of the C-1 Auto Pilot. Part I—Setting Up for Flight.	27
		<i>Demonstrates the preflight checks for the C-1 automatic pilot equipment and power plant; necessity for making precision centering, sensitivity and ratio adjustments of aileron, rudder and elevator controls; demonstrates flight conditions requiring readjustment during flight, and methods of such adjustment; precautions and procedure for making manual adjustments; illustrates maneuvers possible with the auto pilot.</i>	
212b	1943	Operation of the C-1 Auto Pilot. Part 2—Setting Up For Bombing.	20
		<i>Explains procedure for setting C-1 automatic pilot up for bombing: adjusting for centering, sensitivity, ratio, turn compensation, bank trimmer, directional and vertical stabilization, PDI recovery; also, presetting the bombsight. Concludes with procedure for evasive action to avoid AAA fire.</i>	
213a	1943	Basic Electricity is Applied to Electronic Control Systems.	20
		<i>The principles of electricity and basic electrical units are depicted in technicolor animation, to provide orientation into electronic control system of the automatic pilot. Treats: the current equation, A-C and D-C current, batteries, magnetic fields, transformers; series, parallel and bridge circuits; methods and effects of unbalancing circuits; use of the solenoid magnet in conjunction with unbalanced circuits.</i>	

SOUND TRAINING FILMS

AF Serial No.	Year released	Subject	Running time (minutes)
213b	1943	Basic Electronics as Applied to Electronic Control Systems. <i>Uses color animation to explain the basic theory of electronics and its application to the vacuum tube as a "valve" in electronic control system of the automatic pilot. Stresses explanation of the vacuum tube: method of discharging electrons, their attraction to positive plate, use of the grid plate to regulate and amplify flow of electrons; importance of the vacuum tube in electronic systems.</i>	17
214	1943	Maintenance and Servicing of the C-1 Auto Pilot. Part I—The Servo Motor. <i>Demonstrates the operation of the three servo motors of the C-1 automatic pilot and how they make automatic adjustments in the aileron, rudder and elevator controls; describes anatomy of the motors, and inter-rotation of gear system.</i>	25
215	1943	Maintenance and Servicing of C-1 Auto Pilot. Part II—Directional Stabilizer. <i>Describes and explains functions of components of the directional stabilizer; how adapted to the C-1 automatic pilot by the directional panel; methods of servicing and maintenance of directional stabilizer, torque motor, pilot directional indicator, C-1 auto pilot clutch, directional panel, directional arm lock; procedure for precession check; installation procedure for directional stabilizer.</i>	33
216	1943	Maintenance and Servicing of the C-1 Auto Pilot. Part 3—Flight Gyro. <i>Describes principles of operation of the flight gyro; describes the parts to be serviced, and methods of servicing.</i>	25
217	1943	Maintenance and Servicing of C-1 Auto Pilot. Part IV—The Amplifier. <i>Uses animation to take apart the C-1 automatic pilot amplifier; describes its components and function; shows how it electrically receives, strains, and transmits directional, alti-</i>	28

218	1943	Working of Magnesium. <i>Describes the processing and fabricating of magnesium metals, as applied to AAF depot work.</i>	12
219	1943	How to Form Aluminum—General Sheet Metal Practices.	
220	1943	How to Form Aluminum—Blanking and Piercing.	
221	1943	How to Form Aluminum—Spinning.	
222	1943	How to Form Aluminum—Drawing, Stretching, and Stamping.	
223	1943	How to Form Aluminum—Tube and Shape Bending.	
224	1943	Maintenance and Servicing of the C-1 Automatic Pilot—Ground-Check and Trouble Shooting. <i>Demonstrates how malfunctions of the C-1 automatic pilot are traced by elimination check of four components of the electrical system, including checks made on batteries, junction box, terminal blocks, tubes, and rotary arms of servo gears.</i>	22
230	1943	Bank to Bank. <i>A film describing the types and uses of caterpillar tractors in connection with blader grading in airport construction.</i>	13
231	1943	Abrading and Honing. <i>A film for mechanics and repairmen who use abrading and honing equipment.</i>	27
235	1943	Repairing Self-Sealing Fuel Cells. Part I—Emergency Field Repairs. <i>Demonstrates glue-glycerine and metal clamping plate methods of making emergency field repairs on self-sealing fuel cells, both for cells flush with wing skin and those not flush.</i>	26

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AF Serial No.	Year released	Subject	Running time (minutes)
236	1943	Repairing Self-Sealing Fuel Cells. Part II—Universal Repairs. <i>Demonstrates precautions in and methods of making universal dough and patch repairs on self-sealing fuel cells.</i>	30
237	1943	Repairing Self-Sealing Fuel Cells. Part III—Permanent Repairs. <i>Demonstrates methods of making permanent repairs on straight and curved cell sections, including corners and seams for different sizes and types of injury.</i>	47
238	1943	Repairing Self-Sealing Fuel Cells. Part IV—Permanent Repairs of Non-metallic Cells. <i>Demonstrates methods of making permanent repairs on two types of non-metallic self-sealing fuel cells.</i>	13
268	1943	Cutter Sharpening. <i>Illustrates procedures to be followed in cutter sharpening.</i>	7
269	1943	The Surface Grinder. <i>Describes the operation and use of the Norton surface grinder.</i>	8
270	1943	The Grinding Wheel. <i>Describes the use and care of grinding wheels.</i>	8
271	1943	Field Inspection and Service of the Wright Cyclone R-2600 Engine. <i>Shows the procedures to be followed by the mechanic in the field inspection and service of the R-2600 engine.</i>	80
272	1943	The Fuel Booster Pump. <i>Describes the construction and principles of operation of the Thompson fuel booster pump.</i>	10

277 1943 Know for Sure.

A semi-dramatic presentation of the importance of early diagnosis and treatment of venereal disease, and of the value of prophylaxis in preventing infection. A U. S. Public Health Service film.

278 1943 Desert Victory.

Dramatic record of the British offensive which drove the German and Italian armies from Libya. A British film.

I.F. Serial No.	Year released	Subject	Running time (minutes)
2-17	1934	Cavalry Rifle Platoon—From Mounted to Dismounted Act.	11
2-252	1941	Light Machine Gun Platoon, Cavalry Rifle Troop. Part I—Organization and Equipment of Platoon and Squad Drill.	20
2-254	1942	Light Machine Gun Platoon, Cavalry Rifle Troop. Part III—Employment.	15
2-600	1942	Horsemanship. Part I—Saddling and Bridling.	24
2-601	1942	Horsemanship. Part II—Mounting and Military Seat.	30
2-602	1942	Horsemanship. Part III—Aids and Gaits.	39
2-603	1942	Horsemanship. Part IV—Suppling Exercises.	16
2-604	1942	Horsemanship. Part V—Jumping and Cross-Country Riding.	32
2-943	1942	Pack Transportation. Part I—Selection of the Animal.	18
2-944	1942	Pack Transportation. Part II—the Pack Saddle.	17
2-945	1942	Pack Transportation. Part III—the Cargo Saddle.	21

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
2-946	1942	Pack Transportation. Part IV—Field Adjustment and Carrying of Equipment.	17
2-982	1942	Cavalry Rifle Platoon. Part I—Organization, Equipment, and Drill.	25
2-983	1943	Cavalry Rifle Platoon. Part II—Combat Training.	24
2-984	1943	Cavalry Rifle Platoon. Part III—Delaying Action.	13
2-985	1943	Cavalry Rifle Platoon. Part IV—Platoon Defense.	10
2-1130	1943	Scouting and Patrolling. Part I—The Mounted Scout (Cav.), Horse.	35
2-1261	1943	Scouting and Patrolling. Part II—The Mounted Patrol, Horse.	18
2-1267	1943	Horsemastership, Care of Animals in the Field.	31
3-10	1932	Tactical Employment of Chemical Troops in an Attack.	21
3-216	1941	Adjustment of the Service Gas Mask.	17
3-217	1941	Inspection of the Service Gas Mask.	9
3-218	1941	Adjustment of the Training Gas Mask. (<i>Being revised.</i>)	17
3-219	1941	Inspection of the Training Gas Mask. (<i>Being revised.</i>)	8
3-591	1942	Horse Gas Masks M4 and M5.	16
3-650	1942	Collective Chemical Protection.	10
3-667	1942	Decontamination Procedures. Part I—Personnel and Areas.	19

3-687	1942	Decontamination Procedures. Part II—Equipment.	11
3-689	1942	Defense against Chemical Warfare.	10
3-957	1942	Defense against Incendiaries.	21
3-1164	1943	Construction of Gasproof Shelters in the Field.	21
3-1165	1943	Operation of the Mechanical Smoke Generator.	20
3-1248	1943	Filling and Handling of Airplane Spray Tanks. Part I—The M10 Tank.	11
3-1249	1943	Filling and Handling of Airplane Spray Tanks. Part II—The M33 Tank.	19
3-1250	1943	Filling and Handling of Airplane Spray Tanks. Part III—Filling.	19
3-1251	1943	Filling and Handling of Airplane Spray Tanks. Part IV—Transportation and Preparation.	16
3-1252	1943	Filling and Handling of Airplane Spray Tanks. Part V—Decontamination.	11
3-2016	1943	Individual Protection Against Chemical Attack.	28
4-9	1932	Tactical Employment of a Battery of 155-mm Guns.	16
4-101	1939	Employment and Operation of Submarine Mine Battery.	39
4-156	1941	Railway Artillery—Emplacement and Firing of the 12-inch Mortar and 8-inch Gun.	19
4-186	1942	The Antiaircraft 37-mm Gun Battery. Part II—Emplacement of the Gun, Preparation for Firing.	21
4-187	1942	The 37-mm Antiaircraft Gun Battery. Part III—Fire Control Equipment, Firing.	21
4-188	1942	The 37-mm Antiaircraft Gun Battery—Care of the Gun After Firing.	29
4-196	1941	The Antiaircraft Searchlight Battery. Part II—Preparation for Use of Matériel, Orienting and Synchronizing.	15
4-197	1941	The Antiaircraft Searchlight Battery. Part III—Preparation for Action and Drill of the Searchlight Section.	16

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I.F. Serial No.	Year released	Subject	Running time (minutes)
4-240	1942	Three-inch Antiaircraft Artillery Gun Battery. Section I—Movement into Position, Emplacement of 3-inch Gun M3 on M2A2 Mount.	19
4-241	1942	Three-inch Antiaircraft Artillery Gun Battery. Section II—Preparation of M3 Gun for Firing.	30
4-242	1942	Three-inch Antiaircraft Artillery Gun Battery. Section III—Fire Control Equipment.	38
4-243	1942	Three-inch Antiaircraft Artillery Gun Battery. Section IV—Drill of Gun Section, Service of the Piece.	18
4-244	1942	Three-inch Antiaircraft Artillery Gun Battery. Section V—Movement out of Position, March Order.	35
4-269	1941	The Antiaircraft 37-mm Gun Battery—Emplacement of Gun and March Order.	13
4-374	1942	The Antiaircraft Searchlight Battery, Care and Maintenance of Searchlight Equipment. Part II—The Control Station, Sound Locator, Power Plant, and Cable.	27
4-380	1942	The Antiaircraft Searchlight Battery, Care and Maintenance of Searchlight Equipment. Part I—The Searchlight.	35
4-585	1942	The Height Finder M1. Part I—Preparation for Action.	16
4-586	1942	The Height Finder M1. Part II—Adjustment Prior to Operations.	34
4-587	1942	The Height Finder M1—Drill. Part III.	10
4-588	1942	The Height Finder M1—March Order. Part IV.	10
4-589	1942	The Height Finder M1 and M2. Part V—Care and Maintenance.	47

4-605	1942	The Radio Set SCR-268. Part I—Assembly of the Mount.	44
4-606	1942	The Radio Set SCR-268. Part II—Disassembly of the Mount and Packing of the Trailers.	42
4-607	1942	The Radio Set SCR-268. Part III—Placing in Operation.	16
4-608	1942	The Radio Set SCR-268. Part IV—Tracking Targets.	11
4-609	1943	The Radio Set SCR-268. Part V—Orientation and Synchronization with the Director.	31
4-610	1942	The Radio Set SCR-268. Part VI—Synchronization with the Searchlight.	20
4-630	1943	The 12-inch Gun Battery, Barbette Carriage. Part I—Matériel and Personnel.	29
4-631	1942	The 12-inch Gun Battery, Barbette Carriage. Part II—Breech Mechanisms.	18
4-632	1943	The 12-inch Gun Battery, Barbette Carriage. Part III—Checks for Base Ring and Range Disc.	27
4-633	1943	The 12-inch Gun Battery, Barbette Carriage. Part IV—Duties of the Ammunition Squad.	16
4-634	1942	The 12-inch Gun Battery, Barbette Carriage. Part V—Safety Precautions.	12
4-635	1943	The 12-inch Gun Battery, Barbette Carriage. Part VI—Care and Maintenance.	23
4-636	1943	The 12-inch Gun Battery, Barbette Carriage. Part VII—Firing.	19
4-640	1942	Care and Maintenance of the 90-mm Antiaircraft Gun. Part I—Routine Inspection.	18
4-641	1942	Care and Maintenance of the 90-mm Antiaircraft Gun. Part II—Regular Inspection.	19
4-642	1943	Care and Maintenance of the 90-mm Antiaircraft Gun. Part III—Routine Checks.	29
4-643	1943	Care and Maintenance of the 90-mm Antiaircraft Gun. Part IV—Orientation and Synchronization.	22
4-644	1943	Care and Maintenance of the 90-mm Antiaircraft Gun. Part V—Firing, Safety Precautions, and Maintenance after Firing.	12

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T.F. Serial No.	Year released	Subject	Running time (minutes)
4-647	1942	Mechanisms of M5 and M6 Directors.	16
4-655	1943	The Automatic Weapons Firing Unit. Part I—Going into Position.	31
4-656	1943	The Automatic Weapons Firing Unit. Part II—March Order.	24
4-657	1943	The Automatic Weapons Firing Unit. Part III—Preparation for Firing.	25
4-658	1943	The Automatic Weapons Firing Unit. Part IV—Combat Firing Using the Director.	15
4-659	1943	Automatic Weapons Firing Unit. Part V—Combat Firing Unit, Using Forward Area Sights.	20
4-660	1943	The Automatic Weapons Firing Unit. Part VI—Tests and Adjustments, Director M5.	25
4-661	1943	The Automatic Weapons Firing Unit. Part VII—Care and Maintenance of Oil Gear Units.	20
4-662	1943	The Automatic Weapons Firing Unit. Part VIII—Care and Maintenance of the Gun.	31
4-663	1943	The Automatic Weapons Firing Unit. Part IX—Care and Maintenance of the Carriage.	28
4-666	1942	The Automatic Weapons Firing Unit. Part XI—The 40-mm Antiaircraft Gun.	16
4-675	1942	The Three-Point System of Identification of U. S. Cruisers.	16
4-676	1942	The Three-Point System of Identifying U. S. Destroyers.	31
4-685	1942	Antiaircraft Mechanical Mathematics.	17
4-686	1942	The Antiaircraft Gun Director (Predictor-Br.)	22

4-688	1942	Automatic Weapons Firing Unit. Part XII—Gunnery for Antiaircraft Artillery Automatic Weapons.	34
4-692	1942	Antiaircraft Artillery Gun Directors M4 and M7. Part I—Setting Up, Leveling, and Adjusting the Levels.	15
4-693	1943	The Antiaircraft Artillery Gun Directors M4 and M7. Part II—Care and Adjustment of the Tracking Telescopes.	29
4-694	1943	Antiaircraft Artillery Gun Directors M4 and M7. Part III—Orienting and Synchronizing.	11
4-695	1943	Antiaircraft Artillery Gun Directors M4 and M7. Part IV—Operation of Director for Antiaircraft Fire.	20
4-696	1942	Antiaircraft Artillery Gun Directors M4 and M7. Part V—Fitting the Director for a Change of Ammunition.	29
4-917	1942	Fire Control and Position Finding for Seacoast Artillery. Part I—Position Finding Systems.	39
4-918	1942	Fire Control and Position Finding for Seacoast Artillery. Part II—Nonstandard Ballistic Conditions.	26
4-919	1942	Fire Control and Position Finding For Seacoast Artillery. Part III—Computing and Setting Firing Data.	33
4-920	1942	Fire Control and Position Finding for Seacoast Artillery. Part IV—Pointing Methods and Reference Numbers.	22
4-921	1942	Fire Control and Position Finding for Seacoast Artillery. Part V—The M-1 Plotting Board and M-1 Range Correction Devices.	40
4-922	1942	Fire Control and Position Finding for Seacoast Artillery. Part VI—The M1 Deflection Board.	28

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T.F. Serial No.	Year released	Subject	Running time (minutes)
4-923	1942	Fire Control and Position Finding for Seacoast Artillery. Part VII—Dispersion, Errors, and Spotting Systems.	14
4-924	1942	Fire Control and Position Finding for Seacoast Artillery. Part VIII—The M3 Spotting Board.	19
4-925	1942	Fire Control and Position Finding for Seacoast Artillery. Part IX—Fire Adjustment, the Magnitude Correction Method and Lateral Adjustment.	27
4-926	1942	Fire Control and Position Finding for Seacoast Artillery. Part X—Fire Adjustment, the Bracketing Method.	16
4-934	1943	Care and Maintenance of the 155-mm Gun. Part I—Routine Cleaning and Painting.	17
4-935	1943	Care and Maintenance of the 155-mm Gun. Part II—21 Routine Disassembly and Brake Adjustment for Carriages M1917 and M1918.	21
4-936	1943	Care and Maintenance of the 155-mm Gun. Part III—Routine Lubrication.	20
4-947	1942	Antiaircraft Artillery—Gun Directors M4 and M7. Part VI—Care and Maintenance.	18
4-948	1943	The 12-Inch Gun Battery, Barbette Carriage. Part VIII—Checks for Pointing in Direction.	15
4-989	1943	Barrage Balloon, Low Altitude—Service and Equipment. Part I—The Cradle Bed.	18
4-990	1943	Barrage Balloon, Low Altitude—Service and Equipment. Part IIa—Preparation for Inflation.	23
4-997	1943	Barrage Balloon, Low Altitude—Service and Equipment. Part IIb—Inflation.	15

4-998	1943	Barrage Balloon, Low Altitude, Service Equipment. Part III—Mechanical Handling.	19
4-1008	1943	Care and Maintenance of the 155-mm Gun. Part VI—Preparation of Ammunition for Firing.	22
4-1009	1943	Care and Maintenance of 155-mm Gun. Part VII—Checking the Cross Level on the Quadrant Sight.	41
4-1010	1943	Care and Maintenance of 155-mm Gun. Part VIII—Orienting the Panoramic Telescope M2A1 for Case II Pointing.	20
4-1011	1943	Care and Maintenance of the 155-mm Gun. Part IX—Orienting the Panoramic Telescope M2A1 for Case III Pointing.	50
4-1012	1943	Care and Maintenance of 155-mm Guns. Part X—Checking and Adjusting Telescope Mount M6A1.	24
4-1013	1943	Care and Maintenance of 155-mm Gun. Part XI—Orienting the Panoramic Telescope M8 for Case II Pointing.	21
4-1014	1943	Care and Maintenance of the 155-mm Gun. Part XII—Orienting the Panoramic Telescope M8 for Case III Pointing.	54
4-1015	1943	Care and Maintenance of 155-mm Gun. Part XV—Care and Service after Firing.	17
4-1078	1943	Sound Effects for Fire Adjustment—Exercise I—Minor Caliber Firing.	11
4-1079	1943	Sound Effects for Fire Adjustment—Exercise II—Major Caliber Firing.	11
4-1087	1943	Barrage Balloon, Low Altitude, Service and Equipment. Part V—Tail Line Mooring.	18
4-1102	1943	Principles of Radar Operation. Part I—General Principles.	21
4-1106	1943	Care and Maintenance of the 155-mm Gun. Part IV—Preparation of the Bore, Breech, and Firing Mechanism for Firing.	40
4-1107	1943	Care and Maintenance of the 155-mm Gun. Part V—Preparation of the Carriage for Firing.	22

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T.F. Serial No.	Year released	Subject	Running time (minutes)
4-1108	1943	Care and Maintenance of the 155-mm Gun. Part XVIII—The 155-mm Guns M1917 and M1918, Care and Maintenance of the Elastic Suspension.	10
4-1109	1943	Barrage Balloon, Low Altitude, Service and Equipment. Part IV—Manual Handling.	20
4-1110	1943	Barrage Balloon, Low Altitude, Cable Armament. Part I—Operation.	20
4-1111	1943	Barrage Balloon, Low Altitude, Cable Armament. Part II—Service.	25
4-1112	1943	Barrage Balloons, Low Altitude, Cable Armament. Part III—Parachutes.	14
4-1113	1943	Barrage Balloon, Low Altitude, Service and Equipment. Part I—Rigging and Fabric Repair, Inspection and Field Repair.	21
4-1114	1943	Barrage Balloon, Low Altitude, Service and Equipment, Rigging and Fabric Repair. Part II—Major Fabric Repair.	27
4-1128	1943	Care and Maintenance of the 155-mm Gun. Part XIII—Care and Service During Firing.	15
4-1129	1943	Care and Maintenance of 155-mm Gun. Part XIV.	
4-1139	1943	Caliber .50 Antiaircraft Machine Gun. Part I—Disassembly and Assembly of Gun, Handling Ammunition.	31
4-1144	1943	Care and Maintenance of the 90-mm Antiaircraft Gun. Part VI—Remote Control System M2.	23
4-1145	1943	The 90-mm Antiaircraft Gun. Part I—Emplacement Using the Prime Mover.	45
4-1146	1943	The 90-mm Antiaircraft Gun. Part II—Emplacement without Use of Prime Mover.	30

4-1147	1943	The 90-mm Antiaircraft Gun. Part III—March Order.	30
4-1148	1943	The 90-mm Antiaircraft Gun. Part IV—Technique of Antitank Firing.	23
4-1149	1943	The 90-mm Antiaircraft Gun. Part V—Direct Fire Drill.	16
4-1150	1943	Barrage Balloon, Low Altitude, Service and Equipment. Part VI—Midship Mooring.	26
4-1151	1943	Barrage Balloon, Low Altitude, Service and Equipment. Part VII—Turning the Balloon and Storm Precautions.	26
4-1156	1943	The Caliber .50 Antiaircraft Machine Gun. Part III—Care, Maintenance, and Emplacement.	22
4-1162	1943	Barrage Balloon, Gas. Part I—Hydrogen, Production and Principles.	14
4-1163	1943	Barrage Balloon, Gas. Part II—Use and Safety Precautions.	16
4-1177	1943	Barrage Balloon, Very Low Altitude. Part V—Flying Wire Assembly.	29
4-1184	1943	Operating Barrage Balloons from Water-Borne Sites.	22
4-1185	1943	Barrage Balloon, Very Low Altitude. Part II—Inflation and Bedding Down.	17
4-1186	1943	Barrage Balloon, Very Low Altitude. Part III—Flying.	24
4-1189	1943	The Radio Optical Height Finder SCR-547. Part I—Setting up the Equipment.	14
4-1207	1943	Barrage Balloon, Very Low Altitude. Part I—Preparation of Site.	22
4-1209	1943	The Radio Optical Height Finder SCR-547. Part II—Packing the Equipment.	12
4-1214	1943	Barrage Balloon, Very Low Altitude. Part IV—Lethal Devices.	42
4-1222	1943	The Antiaircraft Artillery Searchlight Section. Part I—Preparation for Action.	24
4-1223	1943	The Antiaircraft Artillery Searchlight Section. Part II—March Order.	
4-1224	1943	Antiaircraft Artillery Searchlight Section. Part III—Drill with SCR-268.	
4-1270	1943	Controlled Submarine Mines. Part I—Preparation of Underwater Equipment.	

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T.F. Serial No.	Year released	Subject	Running time (minutes)
4-1272	1943	Controlled Submarine Mines. Part III—Planting Ground Mines.	25
4-1273	1943	Controlled Submarine Mines. Part IV—Planting Buoyant Mines.	21
4-1274	1943	Controlled Submarine Mines. Part V—Preparing and Planting the Distribution Box.	21
4-1276	1943	Controlled Submarine Mines. Part VII—Maintenance and Renovation of Underwater Equipment.	
4-1280	1943	Multiple Machine Gun Mounts. Part I—Operation and Maintenance.	
4-1281	1943	Automatic Weapons Firing Unit. Part XI—Adjustment of the M1 Oil Gear Unit.	24
4-2010	1943	Care and Maintenance of the 155-mm Gun. Part XVI—Care and Maintenance of the M3 Carriage and Limber.	55
4-2011	1943	Care and Maintenance of the 155-mm Gun. Part XVII—Maintenance of the Carriage and Limber, 155-mm Gun, M1.	45
4-2012	1943	Going into Position with the 155-mm Gun.	
5-12	1931	Map Reading.	23
5-119	1940	River Crossing—Footbridge Uses.	43
5-120	1940	River Crossing—Footbridge Construction.	9
5-200	1941	Pioneer Equipment—Woodcutting Tools.	10
5-201	1941	Pioneer Equipment—Manila Rope.	10
5-202	1941	Pioneer Equipment—Hitches.	7
			8

5-203	1941	Pioneer Equipment—Knots and Bends.	15
5-224	1941	Portable Barbed Wire Obstacles.	10
5-237	1942	Portable Water Purification Unit M1940.	26
5-268	1942	Ponton Rowing Drill.	10
5-279	1941	Ten-Ton Ponton Boat M1938.	10
5-284	1942	Ten-Ton Ponton Rafts.	12
5-322	1942	Air Compressor Tools—Pneumatic Paving Breaker.	24
5-378	1942	Timber Trestle Bridge—Construction of.	22
5-379	1942	Construction of the Abutment.	8
5-391	1942	Floor System for Timber Trestle Bridge—The Stringers.	21
5-392	1942	Floor System of Timber Trestle Bridge—Guard Rails, Flooring and Hand Rails.	13
5-565	1942	Repairs and Storage of Ten-Ton Ponton Bridge Equipment.	19
5-571	1942	Air Compressor and Air Tools—The Pneumatic Rock Drill M75.	19
5-572	1942	Explosives and Demolitions—Demolition of Concrete Arch Bridges.	8
5-573	1942	Explosive and Demolitions—Demolition of A Reinforced Concrete Deck Girder Bridge. Part I.	6
5-597	1942	Explosives and Demolitions—Demolition of a Reinforced Concrete Deck Girder Bridge. Part II.	9
5-598	1942	Explosives and Demolitions—Cutting by Explosives.	8
5-615	1942	Portable Steel Bridge. Part I—The H-10 Portable Steel Bridge.	19
5-620	1942	Portable Steel Bridge—Single Span—Equipment for H-20 Loading.	10
5-623	1942	Air Compressor and Air Tools.	21

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T.F. Serial No.	Year released	Subject	Running time (minutes)
5-645	1942	Camouflage—Individual Concealment. (<i>Color.</i>)	10
5-646	1942	Camouflage of the Bivouac Area. (<i>Color.</i>)	11
5-648	1942	Camouflage—Use of Artificial Materials;	13
5-649	1942	Camouflage Principles. (<i>Color.</i>)	10
5-651	1942	Maintenance of Heavy Equipment. Parts I and II—The Engineer Tractor Dozer— Daily and Weekly Maintenance.	31
5-697	1942	Air Compressor and Air Tools—The Pneumatic Clay Digger.	14
5-698	1942	Air Compressor and Air Tools. Part V—The Pneumatic Wood Borer.	9
5-699	1942	Air Compressor and Air Tools. Part VIII—The Pneumatic Nail Driver.	17
5-954	1943	Enemy Booby Traps.	27
5-955	1942	Air Compressor and Air Tools. Part VI—The Pneumatic Circular Saw.	20
5-956	1942	Air Compressor and Air Tools; Part VII—Pneumatic Chain Saw.	16
5-961	1942	Camouflage for All Arms.	30
5-962	1942	Anti-Vehicle Obstacles—Elementary.	47
5-991	1943	Explosives and Demolition—Bangalore Torpedoes.	17
5-1066	1943	Ten-Ton Ponton Trestles and Abutments.	13
5-1067	1943	Ten-Ton Ponton Hinge Span.	12

5-1068	1943	Maintenance and Operation of the Ten-Ton Ponton Bridge:	10
5-1152	1943	Use and Care of the Zigzag Rule, Metallic Tape, Steel Square, T-Bevel, Chalk Line, and Level.	12
5-1153	1943	Use and Care of the Half-Hatchet, Adz, Claw Hammer, Sledge Hammer, and Maul.	13
5-1154	1943	Use and Care of the Crosseut Saw, Rip Saw, and Brace and Bit.	16
5-1155	1943	Use and Care of the Plane, Mallet, and Wood Chisel.	14
5-1169	1943	Military Roads and Runways. Part I—Clearing, Grubbing, and Rock Work.	14
5-1181	1943	Light Stream-Crossing Equipment. Part II—Infantry Support Raft.	17
5-1190	1943	Military Roads and Runways. Part II—Bases and Untreated Surfaces.	10
5-1192	1943	Military Roads and Runways. Part IV—Soil, Cement Surfaces.	12
5-1193	1943	Military Roads. Part I—Road Expedients.	21
5-1194	1943	Military Roads. Part II—Drainage.	12
5-1195	1943	Military Roads. Part III—Road Repair and Maintenance.	9
5-1196	1943	Military Roads. Part IV—Reconnaissance for Road Location.	10
5-1197	1943	Military Roads. Part V—Subgrade Preparation.	9
5-1198	1943	Military Roads. Part VI—Gravel and Rock Surfaces.	8
5-1210	1943	Camouflage Air Views.	36
5-1211	1943	Use and Care of Pneumatic Tools.	16
5-1212	1943	Detection and Neutralization of Enemy Mines.	17
5-1221	1943	Pioneer Technique in Assault of Fortified Positions.	15
5-1226	1943	The Double Apron Fence.	15
5-1242	1943	Assault Boat River Crossing.	17

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T.F. Serial No.	Year released	Subject	Running time (minutes)
5-2018	1943	Employment of Antipersonnel Mines, Sections I and II.	44
5-2019	1943	Hasty Mine Fields.	30
5-2020	1943	Deliberate Mine Fields.	43
5-2021	1943	Location and Construction of Road Blocks.	11
5-2039	1943	Passage of Mine Fields. Part I—For All Arms.	
5-2040	1943	Passage of Mine Fields. Part II—For Specialists.	
6-4	1930	Driving and Draft—Horse-Drawn Artillery (Silent).	48
6-103	1939	Truck-Drawn Units—Reconnaissance and Preparation of Routes.	11
6-104	1939	Truck-Drawn Units—Difficult Terrain.	29
6-105	1939	Truck-Drawn Units—Stream Crossings.	19
6-106	1939	Truck-Drawn Units—Movement of Disabled Vehicles.	10
6-111	1939	Preparation of Fire—The Mil Relation.	11
6-112	1939	Preparation of Fire—Instruments.	9
6-124	1940	The 155-mm Howitzer M1918A1 (Truck-Drawn), The Section—Duties at the Gun Park, Care on the March.	15
6-125	1940	The 155-mm Howitzer M1918A1 (Truck-Drawn), The Section—Duties at the Firing Position, Firing Duties.	27

6-126	1940	The 155-mm Howitzer M1918A1 (Truck-Drawn), The Section—Duties at March Order.	10
6-183	1942	155-mm Gun M1918M3—Service of the Piece Before and During Action.	41
6-230	1941	The 240-mm Howitzer—Personnel and Equipment.	46
6-231	1941	The 240-mm Howitzer—Service of the Piece.	18
6-232	1941	The 240-mm Howitzer—Displacement.	32
6-611	1942	The 105-mm Howitzer. Part I—Mechanical Functioning of the Howitzer.	37
6-612	1942	The 105-mm Howitzer. Part II—Service of the Piece.	26
6-613	1942	The 105-mm Howitzer. Part III—The Firing Battery on the March and in Position.	27
6-684	1942	The 105-mm Howitzer Battalion (Triangular Division) in Reconnaissance and Occupation of Position in Supporting an Attack.	63
6-940	1942	Technique of Fire Direction, 105-mm Howitzer Battalion. Part I—The Observed Fire Chart.	42
6-941	1942	Technique of Fire Direction, 105-mm Howitzer Battalion. Part II—The Surveyed Firing Chart and Determining and Application of Correction.	27
6-942	1942	Technique of Fire Direction, 105-mm Howitzer Battalion. Part III—The Handling of Pre-arranged Fire and Use of Meteorological Data.	30
6-978	1942	Field Artillery Against Tanks.	10
6-994	1942	105-mm Howitzer Battery—Organization of Position.	34
6-1063	1943	Signal Communication in the 105-mm Howitzer Battalion. Part I.	30
6-1072	1943	The 155-mm Gun M1. Part I—Nomenclature of the Piece.	26
6-1073	1943	The 155-mm Gun M1. Part II—Maintenance and Lubrication of the Piece.	15

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I.F. Serial No.	Year released	Subject	Running time (minutes)
6-1074	1943	The 155-mm Gun M1: Part III—Boresighting, Panoramic Telescope and the Gunners Quadrant.	18
6-1075	1943	The 155-mm Gun M1. Part IV—Ammunition.	9
6-1076	1943	The 155-mm Gun M1. Part V—Organization of Personnel and Duties in Firing.	39
6-1077	1943	The 155-mm Gun M1. Part VI—March Order.	17
6-1081	1943	Signal Communications in the 105-mm Howitzer Battalion. Part II.	17
6-1098	1943	Signal Communication in the 105-mm Howitzer Battalion. Part III.	16
6-1201	1943	Employment of a Field Artillery Battery Against Tanks.	26
6-1227	1943	Laying the Field Artillery Battery.	15
7-28	1937	Employment of Machine Guns in Attack.	31
7-29	1937	Employment of Machine Guns in the Defense.	26
7-108	1940	Technique of Small Arms Fire Against Attack Aviation.	17
7-109	1940	Defense of Infantry Columns Against Attack Aviation.	18
7-143	1940	Infantry Drill—The Squad.	10
7-144	1940	Infantry Drill—The Platoon.	14
7-151	1941	Parachute Training in German Army.	15
7-228	1942	Battle Formation—The Rifle Platoon.	43

7-233	1942	Determining Direction in the Field.	9
7-234	1941	Use of Natural Cover and Concealment.	18
7-236	1942	Weapons of the Infantry Division.	56
7-248	1941	Instruction of the Soldier, Dismounted—Without Arms, Position and Facings.	22
7-249	1941	Instruction of the Soldier, Dismounted—Without Arms, Steps and Marchings.	22
7-250	1941	The 60-mm Mortar—Mechanical Training.	20
7-251	1941	60-mm and 81-mm Mortar—Sights and Sight Setting.	28
7-265	1942	Sand Table. Part I—Preparation.	27
7-266	1942	Sand Table. Part II—Use.	20
7-275	1942	Operations of a Reconnaissance Patrol at Night.	39
7-280	1942	Reconnaissance Scout.	10
7-295	1941	Military Training.	58
7-318	1942	Platoon Scouts.	11
7-393	1942	Battle Formation. Part I—The Rifle Squad.	32
7-560	1942	School of the Soldier, Manual of Arms. Part I—Nomenclature for Drill.	29
7-561	1942	School of the Soldier, Manual of Arms. Part II—Nomenclature for Drill, Movements from Port Arms, Other Movements.	17
7-637	1942	Know Your Enemy—Airborne Troops.	22
7-652	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training. Part II—Positions.	27
7-668	1942	37-mm Antitank Gun M3—Action and Service of the Piece.	28
7-677	1942	Ski Equipment.	21
7-678	1942	Snow Camping Above Timberline.	42

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T.F. Serial No.	Year released	Subject	Running time (minutes)
7-679	1942	Snow Camping in Timber.	24
7-680	1942	Ski Safety.	21
7-681	1942	Ski First Aid and Emergency Repair of Equipment.	41
7-682	1942	The Ski Sled.	20
7-683	1942	Ski Mountaineering.	36
7-969	1943	Rifle Marksmanship with M1 Rifle, Preparatory Training. Part I—Sighting and Aiming.	33
7-993	1943	Infantry Hasty Field Fortifications Part I—Individual Intrenchments.	22
7-1061	1943	A Daylight Reconnaissance Patrol.	36
7-1062	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training. Part IV—Rapid Fire.	28
7-1094	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training. Part III—Trigger Squeeze.	20
7-1100	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training. Part V—Elevation and Windage.	34
7-1101	1943	Rifle Marksmanship with the M1 Rifle, Preparatory Training. Part VI—Zeroing and Use of the Score Book.	27
7-1131	1943	Infantry Hasty Field Fortifications. Part II—Emplacement of Light and Heavy Cal. .30 Machine Guns.	20
7-1140	1943	The Antitank Grenade.	12

7-1141	1943	Infantry Hasty Field Fortifications. Part III—Emplacement of 60-mm and 81-mm Mortars.	10
7-1142	1943	Infantry Hasty Field Fortifications. Part IV—Emplacement of the 37-mm Antitank Gun.	12
7-1161	1943	Street Fighting.	15
7-1182	1943	The Rifle Squad and Platoon in Defense. Part I—Intrenchment of the Rifle Squad.	14
7-1220	1943	Fire and Movement.	17
7-1257	1943	Employment of Light Machine Gun in Attack	21
7-1263	1943	The Bayonet Fighter	
7-1266	1943	Infantry Weapons and their Effect.	15
7-2023	1943	Interior Guard Duty, The Sentinel.	33
8-33	1938	First Aid.	26
8-150	1941	First Aid—Injuries and Accidents.	36
8-155	1941	Personal Hygiene.	25
8-953	1943	Malaria—Cause and Control	16
8-999	1942	The Fly.	18
8-1174	1943	Purification of Water.	18
8-1179	1943	Military Sanitation—Disposal of Human Waste.	24
8-1180	1943	First Aid for Chemical Casualties.	24
8-1238	1943	Sex Hygiene.	18
8-1288	1943	Louse-Borne Diseases.	
8-2047	1943	First Aid for Battle Injuries.	18

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T.F. Serial No.	Year released	Subject	Running time (minutes)
9-30	1936	Elementary Principles of the Recoil Mechanism.	12
9-31	1936	Recoil Mechanism, French 75-mm Gun M1897.	11
9-113	1940	Machining the Shell for 3-Inch AA Gun.	21
9-114	1940	Loading, Assembling and Packing Ammunition for 3-Inch AA Gun.	20
9-169	1941	Electrical System of the Diesel Tractor.	9
9-170	1941	Fuel System of the Diesel Tractor.	8
9-171	1941	The Engine of the Diesel Tractor.	20
9-172	1941	Power Train of the Diesel Tractor.	32
9-173	1941	Track and Suspension System of the Diesel Tractor.	19
9-614	1942	The Heavy Wrecking Truck M1, Series II—Operation and Use.	23
9-618	1942	Unexploded Bombs.	43
9-960	1943	Gun, Automatic, 40-mm, M1—Principles of Operation.	25
9-970	1942	Care and Maintenance of Pneumatic Tires. Part I—Tire Designs and Functions.	11
9-971	1942	Care and Maintenance of Pneumatic Tires. Part II—Preventive Maintenance.	15
9-972	1942	Care and Maintenance of Pneumatic Tires. Part III—Removing and Replacing Wheels.	9
9-973	1942	Care and Maintenance of Pneumatic Tires. Part IV—Mounting and Dismounting	14

		Tires with Full Drop-Center Rims.	
9-974	1942	Care and Maintenance of Pneumatic Tires. Part V—Mounting and Dismounting Tires with Semi Drop-Center and Flat Base Rims.	18
9-975	1942	Care and Maintenance of Pneumatic Tires. Part VI—Tire Repairs.	12
9-976	1942	Care and Maintenance of Pneumatic Tires. Part VII—Mounting and Dismounting Combat Tires.	20
9-977	1942	Care and Maintenance of Pneumatic Tires. Part VIII—Bullet Resisting Tubes.	9
9-986	1943	Ordnance Service—The Medium Maintenance Company. Part I—Organization.	11
9-987	1943	Ordnance Service—The Medium Maintenance Company. Part II—March and Bivouac.	7
9-988	1943	Ordnance Service—The Medium Maintenance Company. Part III—Service Operations	8
9-995	1943	Tank Transporter M19. Part I—Function of Vehicle.	22
9-996	1943	Tank Transporter M-19. Part II—Evacuation Operations.	20
9-1001	1943	Hydramatic Transmission. Part I—Theory and Principles of Operation, Fluid Coupling and Gear Train.	26
9-1002	1943	Hydramatic Transmission. Part II—Theory and Principles of Operation, Automatic Shifting Unit.	15
9-1003	1942	The Hydramatic Transmission. Part III—Removal and Installation, Light Tank M5.	15
9-1004	1942	Hydramatic Transmission. Part IV—Maintenance in Light Tank M5.	24
9-1022	1942	The Gyro-Stabilizer Gun Mount. Part I—Principles of Operation.	30
9-1023	1943	The Gyro-Stabilizer Gun Mount. Part II—Maintenance.	14
9-1091	1943	Gun, Automatic, 37-mm, M1A2—Principles of Operation.	20
9-1092	1943	Gun, Automatic, 37-mm, M4. Part I—Principles of Operation.	28

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T.F. Serial No.	Year released	Subject	Running time (minutes)
9-1120	1943	The 20-mm Automatic Gun, M2. Part I—Principles of Operation.	22
9-1122	1943	Elementary Optics for Fire Control. Part III—Military Optical Instruments.	14
9-1123	1943	Thompson Submachine Gun, Cal. .45, M1928A1. Part I—Principles of Operation.	23
9-1126	1943	The Half-Track Vehicles. Part I—Care and Maintenance of Endless Band Tracks and Bogie Wheels.	29
9-1127	1943	The Half-Track Vehicles. Part III—Removal and Installation of Bogie Wheels.	13
9-1167	1943	Military Optical Instruments. Part I—Optical Principles.	10
9-1168	1943	Military Optical Instruments. Part II—Sighting Instruments.	13
9-1172	1943	U. S. Rifle, Cal. .30, M1—Principles of Operation.	15
9-1205	1943	Rifle, Automatic, Cal. .30, Browning, M1928A1—Principles of Operation.	16
9-1206	1943	Carbine, Cal. .30, M1—Principles of Operation.	14
9-1213	1943	The Synchronesh Transmission—Principles of Operation.	25
9-1218	1943	The Oil Filter Goes to War.	26
9-1243	1943	Directors M5 and M6. Part I—Principles of Operation.	17
9-1245	1943	Vacuum Power Brakes—The B-K System—Principles of Operation.	14
9-1246	1943	Hydrovac Power Brakes—Principles of Operation.	9
9-1247	1943	Directors M5 and M6. Part II—Torque Amplifier, Principles of Operation.	21

9-1258	1943	Lubrication of Military Vehicles. Part I—Principles of Lubrication.	25
9-1259	1943	Recoil Mechanisms, Principles of Operation. Part I—Hydrospring Type.	9
9-1260	1943	Recoil Mechanisms, Principles of Operation. Part II—Hydropneumatic Type.	12
9-1264	1943	Automotive Clutch, Principles of Operation.	
9-1268	1943	Bevel Gear Differential, Principles of Operation.	
9-1269	1943	Automotive Transmission—Principles of Operation.	
9-1282	1943	Automotive Gears, Principles of Operation.	26
9-1283	1943	Servicing the Zero-Lash Hydraulic Valve Lifter.	
9-1284	1943	Planetary Gear Train, Principles of Operation.	
9-1285	1943	Controlled Differential, Principles of Operation.	
9-1286	1943	Elementary Principles of Torque.	10
9-2007	1943	Disposal of Unusable Ammunition and Explosives. Part I—General Principles and Disposal at Sea.	26
9-2008	1943	Disposal of Unusable Ammunition and Explosives. Part II—Disposal by Burning.	23
9-2009	1943	Disposal of Unusable Ammunition and Explosives. Part III—Disposal by Detonation.	19
9-2026	1943	Care and Use of Hand Tools. Part I—Wrenches.	14
9-2027	1943	Care and Use of Hand Tools. Part II—Pliers and Screw Drivers.	12
9-2028	1943	Care and Use of Hand Tools. Part III—Chisels.	11
9-2029	1943	Care and Use of Hand Tools. Part IV—Hammers.	14
9-2030	1943	Care and Use of Hand Tools. Part V—Bars, Punches, and Drifts.	18
9-2031	1943	Care and Use of Hand Tools. Part VI—Hacksaws.	
9-2041	1943	Gun, Automatic, 37-mm, M4. Part II—Malfunctions.	

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I.F. Serial No.	Year released	Subject	Running time (minutes)
9-3000	1943	Gun, Tank, 75-mm, M3—Theory and Principles of Operation.	20
10-158	1941	Diesel Engines—Principles, Operation and Application.	16
10-165	1941	Principles of Oxyacetylene Welding and Cutting.	16
10-166	1941	Gasoline Motors.	17
10-167	1941	Hydraulic Brakes—Application and Principles.	8
10-176	1941	Automobile Body Repairing.	90
10-291	1942	Automotive Trouble Shooting. Part I—Functions of the Fuel and Ignition Units.	14
10-299	1942	Automotive Trouble Shooting. Part XIII—Hydraulic Brakes.	27
10-300	1942	Automotive Trouble Shooting. Part XV—The Clutch.	21
10-301	1942	Automotive Trouble Shooting. Part XVI—Drive Shaft and Axle.	28
10-319	1942	Automotive Trouble Shooting, Motor Maintenance. Part IX—Cooling System Troubles (Automatic).	32
10-376	1942	Automotive Trouble Shooting. Part II—The Cranking System.	14
10-377	1942	Automotive Trouble Shooting, Motor Maintenance. Part III—The Fuel System— —The Engine Will Not Start.	13
10-395	1942	Automotive Trouble Shooting. Part V—The Fuel System at Various Speeds.	16
10-396	1942	Automotive Trouble Shooting. Part VI—The Ignition System at Various Speeds.	21

10-568	1943	Automotive Trouble Shooting. Part VII—Engine Lacks Power.	17
10-570	1942	Automotive Trouble Shooting. Part X—Engine Tune-Up.	62
10-592	1942	Automotive Trouble Shooting. Part XIa—Wheels.	15
10-593	1942	Automotive Trouble Shooting. Part XIb—Spring and Shock Absorbers.	21
10-594	1943	Automotive Trouble Shooting. Part XIc—Section I—The Steering System.	11
10-595	1942	Automotive Trouble Shooting. Part XII—The Lighting System.	20
10-596	1942	Automotive Trouble Shooting. Part XVII—Transmission and Transfer Care.	19
10-638	1943	Automotive Trouble Shooting. Part XIV—Front End Alignment.	31
10-639	1942	The Spark Plug.	17
10-654	1942	Motorcycle Driver Training. Part I—Description and Function.	11
10-929	1942	Hand Measuring and Power Tools—Operation and Care of Portable and Bench Grinders.	18
10-930	1942	Hand Measuring and Power Tools—Portable Electric Drills.	19
10-931	1942	Hand Measuring and Power Tools—Electric Valve Grinding Tools.	29
10-932	1942	Hand Measuring and Power Tools—Care and Use of Files.	24
10-933	1942	The Use and Abuses of Twist Drills.	27
10-980	1943	Automotive Trouble Shooting. Part XIc—Section II—Chevrolet 4x4 and G.M.C. 6x6 Steering System Adjustments.	16
10-981	1943	Automotive Trouble Shooting. Part XIc—Section III—Dodge ½-ton 4x4 Steering Gear Adjustments.	10
10-1089	1943	Motorcycle Driver Training. Part II—Basic Driving.	11
10-1104	1943	The M1937 Field Range. Part I—Range Equipment and the Fire Unit.	17

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
10-1105	1943	The M1937 Field Range. Part II—Cleaning and Maintenance.	17
10-1133	1943	The Army Cook. Part I—Meat Cutting Tools and Equipment.	20
10-1134	1943	The Army Cook. Part II—Cutting a Hindquarter of Beef.	14
10-1135	1943	The Army Cook. Part III—Cutting a Forequarter of Beef.	17
10-1136	1943	The Army Cook. Part IV—Cutting Lamb.	14
10-1137	1943	The Army Cook. Part V—Cutting Veal and Pork.	13
10-1138	1943	The Army Cook. Part VI—Cooking and Carving of Meat.	20
10-1170	1943	Quartermaster Mobile Laundries. Part I—Setting Up the Equipment.	22
10-1171	1943	Quartermaster Mobile Laundries. Part II—Operation.	16
10-1202	1943	Baking in the Field. Part I—M1942 Field Baking Unit.	29
10-1203	1943	Baking in the Field. Part II—The M1942 Field Baking Unit without Gasoline.	30
10-1208	1943	Gasoline and Oil Supply.	23
10-1215	1943	Rations in the Combat Zone. Part II—Unit Messing.	16
10-1216	1943	Rations in the Combat Zone. Part III—The "C" Ration.	10
10-1237	1943	Rations in the Combat Zone. Part I—Fighting Food.	10
10-1239	1943	Loading of Motor and Rail Cargoes. Part I—Box Cars.	16

10-1240	1943	Loading of Motor and Rail Cargoes. Part II—Flat Cars.	25
10-1241	1943	Loading of Motor and Rail Cargoes. Part III—Trucks.	13
10-1256	1943	Training War Dogs—Basic Exercises.	21
11-157	1941	Military Courtesy and Customs of the Service.	26
11-168	1941	The Basic Principles of Skiing.	38
11-177	1941	Basic Signal Communication—Field Wire Splices.	21
11-178	1941	Basic Signal Communication—Field Wire Ties.	9
11-184	1941	Conduct of Physical Training.	30
11-205	1942	Safeguarding Military Information—Cryptographic.	21
11-225	1941	Interrogation of Prisoners.	37
11-235	1941	Articles of War.	47
11-257	1941	Care and Maintenance of Tapered Roller Bearings.	31
11-262	1941	Point Control of Traffic.	26
11-274	1941	Pistol Bull's-eyes.	20
11-296	1941	Techniques and Mechanics of Arrest and Search of Persons.	69
11-297	1942	Basic Signal Communication—Field Wire Line Construction.	20
11-298	1942	The Mitchell Camera.	17
11-321	1942	Combat Counterintelligence.	20
11-324	1941	Safeguarding Military Information.	12
11-325	1942	Safeguarding and Proper Handling of Classified Material.	18
11-382	1941	Know Your Enemy.	44

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T.F. Serial No.	Year released	Subject	Running time (minutes)
11-383	1941	Friend or Foe.	55
11-397	1942	Basic Signal Communication—Field Wire Laying Equipment.	20
11-551	1942	The Motor Vehicle Driver—Responsibility, Nomenclature, Fire Regulations, Accident Prevention.	25
11-552	1942	The Motor Vehicle Driver—Hand Signals, Road Rules and Regulations.	13
11-553	1942	The Motor Vehicle Driver—Elementary Driving Instructions and Inspection.	25
11-554	1942	The Motor Vehicle Driver—Difficult Driving.	18
11-555	1942	The Motor Vehicle Driver—Traction Aids and the Winch.	27
11-556	1942	The Motor Vehicle Driver—Map Reading.	9
11-557	1942	The Motor Vehicle Driver—Marching and Night Driving.	21
11-558	1942	The Motor Vehicle Driver—First Echelon Maintenance.	35
11-559	1942	The Motor Vehicle Driver—Loading, Trouble Shooting, Reports, and Vehicle Abuse.	27
11-590	1942	Climbing and Working on Poles.	15
11-621	1942	Care and Release of Pigeons in the Field.	10
11-622	1942	Electricity and Magnetism. Part I—Elements of Electricity.	14
11-629	1942	Radio Set SCR-270—Locating and Reporting Targets.	18
11-671	1943	Message Center Procedures. Part I—Outgoing Messages.	19

11-691	1943	Description and Use of the Converter M-209A	25
11-951	1943	Pole Line Construction. Part I—Erecting Telephone Poles.	18
11-952	1943	Pole Line Construction. Part II—Installation of Cross Arms.	9
11-968	1943	Pole Line Construction. Part III—Installation of Special Cross Arms.	13
11-1064	1943	Message Center Procedure. Part II—Incoming Messages.	10
11-1069	1943	Pole Line Construction. Part IV—Fundamentals of Guying.	10
11-1070	1943	Pole Line Construction. Part V—Installations of Anchors.	9
11-1071	1943	Pole Line Construction. Part VI—Installation of Guys.	10
11-1082	1943	Oscilloscope Target Interpretation.	13
11-1088	1943	Pole Line Construction. Part VII—Stringing Open Wires.	18
11-1159	1943	Field Wire Boom Equipment.	21
11-1187	1943	Electricity and Magnetism. Part III—Voltaic Cell, Dry Cell, and Storage Battery.	18
11-1188	1943	Frequency Meter SCR-211.	18
11-1199	1943	Use of Field Telephone.	16
11-1200	1943	Electricity and Magnetism. Part II—Ohm's Law.	19
11-1219	1943	Electricity and Magnetism. Part IV—Charging Storage Batteries.	16
11-1228	1943	Teletypewriter Sets EE-97A and EE-98A. Part I—Field Installation.	14
11-1229	1943	Teletypewriter Sets EE-97A and EE-98A. Part II—Field Testing.	15
11-1230	1943	Teletypewriter Sets EE-97A and EE-98A. Part III—AC Installation.	10
11-1234	1943	Telephone Switchboard Operating Procedures.	16
12-578	1942	Soldiers in the Making—Classification of Enlisted Men.	13

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
12-1157	1943	Visual Classification Test (<i>Silent version</i>).	16
12-1158	1943	Visual Classification Test. (<i>Sound version</i>).	16
15-992	1943	Administration of Military Justice and Courts Martial.	45
16-2037	1943	For God and Country.	
17-264	1941	Armored Force Drill—The Light Tank Crew.	12
17-314	1942	Half-Track Driving—Advanced.	16
17-576	1942	Tank Driving—Advanced.	22
17-617	1942	Motorcycle Driving—Advanced.	13
17-963	1942	Thompson Submachine Gun. Part I—Functioning.	5
17-964	1942	Thompson Submachine Gun. Part II—Assembly and Disassembly.	11
17-965	1942	Thompson Submachine Gun. Part III—Manual of Arms.	7
17-966	1942	Thompson Submachine Gun. Part IV—Loading and Firing.	4
17-967	1942	Thompson Submachine Gun. Part V—Marksmanship.	9
17-1006	1943	Attack and Defense of Road Blocks.	20
17-1083	1943	Tank Platoon, Bivouac and Outpost Security.	34
17-1085	1943	The Tank Platoon—The Advance Guard.	33

17-1086	1943	Field Expedients, Track-Laying Vehicles.	27
17-1160	1943	Recognition of AFV—Covenanter and Crusader.	10
17-1204	1943	Vehicular Firing, M4, Medium Tank. Part I—Preparing for Action and Going Out of Action.	22
17-1225	1943	Vehicular Firing, M4 Medium Tank. Part II—Sighting and Aiming.	18
17-1262	1943	Vehicular Firing, M5 Light Tank.	
18-1116	1943	Employment of Secondary Weapons Against Tanks.	16
18-1166	1943	The Antitank Rocket M6—Methods of Use.	27
18-2013	1943	Direct Fire, The Tank Destroyer Section.	
19-2032	1943	Guarding Against Sabotage.	45
19-2034	1943	A.W.O.L. and Desertion.	39
19-2036	1943	Control of Individuals in the Field.	25
21-1007	1943	Snafu.	12
21-1018	1943	Keep It Clean.	14
21-1019	1943	Crack that Tank!	14
21-1020	1943	How to Get Killed—In One Easy Lesson.	11
21-1021	1943	Wise Guy.	16
21-1024	1943	Kill or Be Killed.	10
21-1025	1943	Curiosity Killed a Cat.	15
21-1026	1943	On Your Toes.	15
21-1027	1943	Latrinograms.	12
21-1028	1943	Heroes.	6

SOUND TRAINING FILMS

I.F. Serial No.	Year released	Subject	Running time (minutes)
21-1029	1943	On Your Own.	15
21-1236	1943	Organization of the Army.	29
21-1244	1943	Abandon Ship.	29
21-1289	1943	Locating the Enemy.	17
21-2014	1943	Baptism of Fire.	37
21-2015	1943	Secret Weapon.	16
21-2025	1943	Scouting and Patrolling. Part III—Mechanized Patrol.	73
21-2035	1943	Security on the March—Mechanized Units.	25
25-5	1931	Carbon Monoxide—The Unseen Danger. (<i>Silent</i>).	17
25-152	1941	Ignition and the Spark Plug.	21
25-333	1941	The Engine Lathe—Rough Turning Between Centers.	15
25-334	1941	The Engine Lathe—Turning Work of Two Diameters.	14
25-335	1941	The Engine Lathe—Cutting a Taper with the Compound Rest and with the Taper Attachment.	10
25-336	1941	The Engine Lathe—Drilling, Boring, and Reaming Work Held in Chuck.	10
25-337	1941	The Engine Lathe—Cutting an External National Fine Thread.	12
25-338	1941	The Milling Machine.	7

25-339	1941	The Milling Machine—Cutting Keyways.	15
25-340	1941	The Milling Machine—Straddle and Surface Milling to Close Tolerances.	27
25-341	1941	The Milling Machine—Straddle Milling.	17
25-342	1941	The Milling Machine—Plain Indexing and Cutting a Spur Gear.	25
25-343	1941	The Vertical Boring Mill—Rough Facing, Turning and Drilling on a Vertical Lathe (Turret).	31
25-344	1941	The Vertical Boring Mill—Rough Facing, Boring and Turning a Shoulder on a Vertical Turret Lathe.	22
25-345	1941	The Vertical Boring Mill—Grooving, Chamfering on a Vertical Turret Lathe Using Two Heads.	31
25-346	1942	Steel Rule.	14
25-347	1942	Micrometer.	15
25-348	1942	Fixed Gages.	17
25-349	1942	Vernier Scale.	19
25-350	1941	Height Gages and Standard Indicator.	12
25-394	1942	Detection of Booby Traps.	21
25-624	1942	Cutting a Keyway on a Finished Shaft.	13
25-625	1942	Machining a Rectangular Cast Iron Block.	15
25-626	1942	Drilling and Tapping a Cast Steel Valve Body.	19
25-627	1942	Drilling to a Layout and Spotfacing a Cast Iron Valve Body.	15
25-628	1942	Machining a Tool Steel V-Block.	20
30-938	1942	Blabbermouth.	19

SOUND TRAINING FILMS

T.F. Serial No.	Year released	Subject	Running time (minutes)
30-949	1942	Don't Talk.	21
30-950	1942	Next of Kin.	79
30-2033	1943	Sucker Bait.	40
31-1143	1943	Individual Training in Ship-to-Shore Movement.	25
31-1175	1943	Field Artillery 105-mm Howitzer Section in Shore-to-Shore Operations.	20
31-1231	1943	Parachute Jump Training.	26
31-1253	1943	Basic Training of Glider-Borne Troops. Part I—Knots and Lashings.	23
31-1254	1943	Basic Training of Glider-Borne Troops. Part II—Loading Equipment in the CG-4A.	29
31-1255	1943	Basic Training of Glider-Borne Troops. Part III—Flight Training.	22
55-937	1942	Military Stevedoring. Part I—Loading Cargo Ships.	18
55-1005	1943	Military Stevedoring. Part II—Cargo Handling Gear, Basic Operation.	15
55-1093	1943	Military Stevedoring. Part III—Winches and Booms.	18
55-1117	1943	Military Stevedoring. Part IV—Drafts and Slings.	16
55-1118	1943	Military Stevedoring. Part V—Straps and (Transportation) Bridles.	14
55-1119	1943	Military Stevedoring. Part VI—Vehicle Loading and Stowing.	16
104-1080	1943.	Matériel Handling Methods.	7
629-1027	1943	Hand-to-Hand Combat.	48
(A, B, and C.)			

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14. ORIENTATION FILMS

a. War Department Information Films ("Why We Fight" Series).

(1) **PURPOSE** A series of films designed to acquaint personnel of the Army with the background of the present war, the history of the war to date, the current progress of the war, and information concerning our allies and enemies.

(2) **DISTRIBUTION.** Morale and informational films are distributed by the Chief Signal Officer in such a way as to insure their exhibition to all troops at the shortest possible time after their release. The "Why We Fight," "Know Your Enemy," and "Know Your Ally" series are circulated for exhibition at post theaters during daytime hours. They are not exhibited as part of the entertainment film programs shown in the evening at post theaters. Prints, both 16-mm and 35-mm, are made available for later showings through the service command film library system. If prints are not available at post film libraries, they may be obtained from the central film library of the service command.

(3) LIST OF FILMS.

Issue No.	Year released	Subject	Running time (minutes)
1	1942	Prelude to War. <i>Probes back to the forces and reasons that lead to the present conflict; shows the rise of Hitler, Mussolini, and the Japanese Empire; includes the Japanese conquest of Manchuria and the Italian conquest of Ethiopia.</i>	50
2	1943	The Nazis Strike. <i>Shows how Germany planned and prepared for this war and how she struck her first blows in Austria, Czechoslovakia, and Poland.</i>	50
3	1943	Divide and Conquer. <i>Shows how Hitler, in spite of pledges and treaties, enslaved the smaller democracies to his west—Denmark, Norway, Holland, Belgium. How his armies invaded France and drove the British from the continent at Dunkirk.</i>	50
4	1943	The Battle of Britain. <i>Presents the story of the year during which Britain stood alone against the Axis—how the Nazi air force, then the most powerful in the world, smashed at her cities and how she fought back and finally stopped Hitler.</i>	50
5	1943	The Battle of Russia. <i>Shows the background of the Russians—how they live, work, and play, how they feel about their country, and how they swarmed to its defense when Hitler struck. It shows the major actions up to and including the Russian victory at Stalingrad.</i>	90

b. Army and Navy Screen Magazine (Films).

(1) **PURPOSE.** A flexible newsreel type series of films designed to meet specific morale needs. This series is broad in scope for the purpose of enlarging the soldier's perspective of the war by showing the part all branches of the armed forces, the home front, and the Allies play in it.

(2) In 35-mm, the Army-Navy Screen Magazine is booked in every War Department theater. These prints are handled by commercial exchanges and booked with the regular entertainment programs. They play the War Department theaters in the evening as a short subject supplementing the entertainment feature. In 16-mm, the Army-Navy Screen Magazine is a part of the G. I. Movies. G. I. Movies are booked upon request and are handled on 16-mm circuits through commercial distributors in each territory. The original circuit set-ups are made in the New York office of the Film Circuit Section, Army Pictorial Service, Office of the Chief Signal Officer. All requests for rebookings or additions to G. I. Movies circuits should be referred to the Film Circuit Section, 1250 Sixth Avenue, New York 20, New York.

(3) LIST OF ISSUES.

Issue No.	Year released	Subject	Running time (minutes)
1	1943	Screen Magazine No. 1: <i>Japanese Ambassadors in Washington and surprise attack on Pearl Harbor; Women testing implements of war at Aberdeen Proving Grounds; Private from Guadalcanal tells his story; Construction of airfields on Adreanof Group and attack on Jap-held Kiska; Antiaircraft target practice on miniature remote control plane.</i>	20
2	1943	Screen Magazine No. 2: <i>Leopold Stokowski plays for soldiers; Submarine warfare; Difference between Japanese and American soldiers; Experiment of temperature on soldiers' efficiency; Eye-witness story of Horner's battle.</i>	20
3	1943	Screen Magazine No. 3: <i>How to abandon ship and swim in burning oil; New York City in wartime; V-Mail; A day with the Russian soldiers; General Vandergrift's story of cooperation between services at Guadalcanal.</i>	20
4	1943	Screen Magazine No. 4: <i>Allotments for dependents; The fall of Hong Kong; Training dogs to help the blind in the war effort; Around the clock with the RAF; Snafu tries all branches of the services.</i>	20
5	1943	Screen Magazine No. 5: <i>Amphibious training; Award of Army-Navy "E"; Army nurse's description of Bataan and Corregidor; First anniversary of the WAACs; Snafu on K.P.</i>	20
6	1943	Screen Magazine No. 6: <i>M10 tank destroyer in operation; Story by heroes of Doolittle raid; Yanks and Aussies fight side by side at Buna and Moresby; War plant workers spend day as G. I.'s and G. I.'s visit war plants; Merchant seamen's canteen in New York.</i>	20

7	1943	Screen Magazine No. 7: <i>Chinese pilots win wings in U. S. Army; Salvaging shoes; Interview with Colin Kelly's gunner; Russian worker describes total war; Snafu learns to keep his lip buttoned.</i>	20
8	1943	Screen Magazine No. 8. <i>Rebirth of Lafayette Escadrille; Stars tour overseas; Fighting on Attu.</i>	20
9	1943	Screen Magazine No. 9. <i>The DUKWS in action; Battle of Bismarck Sea; Mobile, Alabama, converts to war; Entertainment for Russian soldiers at front; Snafu and Private Goldbrick.</i>	20
10	1943	Screen Magazine No. 10. <i>Biggest dreadnought's shake-down cruise; Civilian service for translating letters to soldiers from non-English speaking partets; Interview with Barney Ross; Training War Dogs; British King visits Malta.</i>	20
11	1943	Screen Magazine No. 11. <i>Screen of Army-Navy cooperation at Munda; Young war workers in agriculture; Smoke screens for war plants; Army Emergency Relief; Snafu tries the tanks, Navy, and air forces.</i>	20
12	1943	Screen Magazine No. 12. <i>A salute to the railroads; Campaign in Sicily; How Hit Kits are chosen.</i>	20
13	1943	Screen Magazine No. 13. <i>Inside information on Jap weapons; Joe E. Brown puts on baseball game; All Filipino regiments; Snafu gets overoptimistic.</i>	20
14	1943	Screen Magazine No. 14. <i>Newspaperman from Japan describes Japanese soldier; Male nurses on the home front; Quebec Conference.</i>	20
15	1943	Screen Magazine No. 15. <i>G. I. railroad men build and repair railway systems; Captured Japanese films of amphibious operations, firing Chinese villages, weapons; The fighting Dutch; Snafu sees the home folks working for victory.</i>	20

(3) LIST OF ISSUES—(Continued)

Issue No.	Year released	Subject	Running time (minutes)
16	1943	Screen Magazine No. 16. <i>The Women's Airforce Service Pilots training at Avenger Field, Texas; G. I.'s on a three-day pass in India; Saga of the infantrymen in Italy.</i>	20
17	1943	Screen Magazine No. 17. <i>The reconditioning of the Richelieu and French warriors training in America; The battle of rubber is being won on the home front with synthetics; The crew of the USS North Carolina send Christmas presents to the kids back home; Snafu spreads a rumor and it backfires.</i>	20
18	1943	Screen Magazine No. 18. <i>The story of life in Iceland; The amazing tale of how American ingenuity and "know how" substituted one material for another when essential materials were cut off by the Japanese and how new methods were developed to make war weapons quicker and better.</i>	20

c. Supplementary War Information Films.

1943	Know Your Ally—Britain. <i>Explains to the American fighting man his British ally. Its purpose is to clarify and to present a true picture of the nature of the British and their part in the war.</i>	42½
1943	Substitution and Conversion. <i>A picture of the growth of American arsenal of democracy. It shows in specific terms how industry changed over to war, substituting noncritical materials where shortages existed, and converting the machines and techniques of peacetime manufacture to production of the tools of battle.</i>	48.8

15. INDUSTRIAL INCENTIVE FILMS

a. War Department Industrial Services Films.

(1) **PURPOSE.** The following official War Department films have been made available for showings to industrial war workers in both 16-mm and 35-mm sound-track prints.

(a) The majority of these films demonstrate the relationship of the war worker to the fighting men in all corners of the globe.

(b) The films are grouped under two categories in order to assist war plants in assembling suitable programs for showings to their employees. In the first classification are films of general interest. These films can be shown in any war plant regardless of the type of product they manufacture. The second group includes "films made for specialized industries." These films are particularly appropriate for the war workers in industries for which their film content was designed. Several films, while directed particularly to one industry, can be adapted to every type of industry due to the general nature of the material contained within the film.

(2) DISTRIBUTION.

(a) Distribution policy for war plants and labor unions is as follows: The Industrial Services Division of the War Department Bureau of Public Relations has established a national distribution system of film exchanges in key cities throughout the country. War plants and labor groups desirous of showing these films should address their requests to the Industrial Services Division, War Department Bureau of Public Relations, Room 2E867 Pentagon Building, Washington 25, D. C.

(b) Army posts and military installations can secure Army industrial films through their central film libraries of the service commands.

(3) LIST OF FILMS.

(a) *Films of general interest.*

1. Film communiques.

No.	Subject	Running time (minutes)
1	Film Communique No. 1. <i>First of a monthly series of pictorial combat reports to industrial war workers. This one consists of three parts: Little Detroit, a truck-assembly plant in a theater of operations (Africa); Landing supplies and evacuating the wounded by Air Transport Command in New Guinea; The Price of Rendova, establishment of beachhead, landing of invasion troops and equipment, a Jap bombing attack which kills a number of American troops and destroys a part of the material landed.</i>	18
2	Film Communique No. 2. <i>In two parts, the first, "A Day with the A-36's," the new attack bomber adapted from the P-51 Mustang. We sit in the pilot's seat while the ships dive through the clouds and bomb and strafe German pill boxes, bird's-eye witnesses of modern air combat. In addition, the pictures show glimpses of the ground life of the men who serve and fly one of the newest of Uncle Sam's war birds: Part two is a captured German industrial film that gives a thought-provoking picture of Germany's war production, still able to deliver terrific blows. A thousand feet of eye-opening shots of the enemy's assembly lines, with the original German sound track, just as our Military Intelligence turned it over for release to American workers.</i>	20
3	Film Communique No. 3. <i>The five parts of this film show: The great job done by LST boats (Landing Ship Tank) in getting men and equipment ashore under fire in Sicily and Italy. A human-interest</i>	20

picture of religious observance on Guadalcanal. The assembling of American railroad equipment in Italy to replace destroyed Italian equipment. The finest combat pictures to date of American P-47's blasting Nazi fighters from the sky over Europe. The paratroop attack on Lae in New Guinea which was personally supervised by General MacArthur.

2. Training films.

Issue No.	Year released	Subject	Running time (minutes)
21-2014	1943	Baptism of Fire.	36
21-1024	1943	Kill or Be Killed.	10

3. War films.

No.	Subject	Running time (minutes)
1	War Film No. 1—The Arm Behind the Army. <i>A dramatization of labor and industry's role in modern warfare, their stake in this conflict, and an expression of the Army's confidence in them.</i>	13
2	War Film No. 7—The Battle of Midway. <i>A one-reel industrial version of the Navy film "The Battle of Midway," especially adapted with special commentary to illustrate the part industry and labor played in this victory.</i>	11

4. Orientation films.

Issue No.	Year released	Subject	Running time (minutes)
1	1942	Prelude to War.	50
2	1943	The Nazis Strike.	50
3	1943	Divide and Conquer.	50
4	1943	Battle of Britain.	50

5. Miscellaneous films.

No.	Subject	Running time (minutes)
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- 1 Channel Fortifications. 6

The Germans' own film of the fortifications they are erecting along the English Channel to repel an invasion of Europe from the north. The American-made commentary brings out interesting points; the film as a whole gives an absorbing picture of the lengths to which German preparations have gone and clearly indicates the growing fear of invasion that lies behind them.

- 2 Bombers Over North Africa. 19

Bombing mission in North Africa. Film shows preparation of the planes, briefing of the crews by intelligence officers before the raid, the bombing raid itself, intelligence interrogation of the crews on their return. Brief speeches by Generals Eisenhower and Doolittle.

3 Landing in Sicily.

An exciting short film; the official film record of the opening attack on the not-so-soft "underbelly" of Europe. Photographed under fire for the most part, it shows the amphibious attack, the initial landings, and the effects of Axis counterattacks on men and matériel.

4

War Department Report.

An official and dramatic report by the General Staff to the men and women of America's war industry on the military situation today. Hitherto confidential material on the strength and weaknesses of the enemy and on the job ahead of us is presented, illustrated by the finest combat scenes filmed by Army and Navy camera crews, by captured film, and by interesting animations which make the most intricate problems of strategy crystal clear. Dramatic sequences show such thrilling events as the landings in Sicily, the Battle of Salerno Beach, the abduction of Mussolini by the Germans (scenes from their own film), the great amphibious operations in the Solomons. The eye-opening facts on possible avenues of attack on Germany and Japan are revealed by Army Intelligence. A picture every war worker should see.

5

Road to Berlin. (Depots and Supply Services).

A Nazi submarine "wolf pack" racing to intercept a convoy carrying urgently needed supplies, and the race against time by those who handle these supplies and load the convoy, furnish the dramatic elements in this film. The picture brings out the importance of the many jobs, both big and small, performed by men and women who are vital links in the life line to the front and whose war work has received little publicity or praise.

(b) Films made for specialized industry—War Films.

No.	Subject	Running time (minutes)
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1

War Film No. 2—Combat Report. (Aviation.)

A photographic communique reenacting an actual engagement of an Army bomber sinking a submarine. Flashbacks dramatize production of vital aircraft equipment.

FILMS MADE FOR SPECIALIZED INDUSTRY—(Continued)

No.	Subject	Running time (minutes)
2	War Film No. 3—Firepower. (<i>Plants producing weapons, ammunition. Dramatizing the vital need for all types of guns and ammunition, showing how nations which did not have sufficient fire power fell before the Nazis. Sequences tell how men and women of those nations are now working along with our workers. The film ends with a great demonstration of American weapons.</i>)	12
3	War Film No. 4—Attack Signal. (<i>Electronics—but also suitable for some general use.) An American task force attacks a South Pacific island. During landing operations a radio set, and its production, play a crucial part in the outcome of the assault. The film emphasizes the necessity for quality in production and shows how carelessness in a plant nearly caused the annihilation of a landing force.</i>)	13
4	War Film No. 5—Shock Troop. (<i>Lumber.) Picturing the vital role of the woodsmen and millmen throughout our history and their particularly important contribution in the present war, featuring the use of lumber in the equipment and the supplying of our fighting men.</i>)	11
5	War Film No. 6—War on Wheels. (<i>Automotive—but also suitable for some general use.) The exciting film story of an American truck convoy ambushed by German tanks. Its rescue in a pitched battle by a group of American medium tanks graphically pictures the type of action which won for us in Tunisia. The commentary brings home to the worker the importance of his role in our mounting war production.</i>)	22
6	War Film No. 8—All American. (<i>Aviation—but definitely suitable for general use.) A vivid picture story of the Army Air Forces in operation all over the world, taken by combat cameramen. Action shots show the All-American team of pursuit ships, bombers,</i>	28

and transports, on actual missions—meeting swarms of enemy fighters, smashing ships and shore installations with heavy bombing, transporting wounded men and vital materials, landing a division of paratroopers from the air. An absorbing presentation of the battle performance of American planes.

18

7

War Film No. 9—Life Line. (Medical supply—but suitable for general use.) The camera record of the opening attack against Rendova and Munda, the Japs' counter-attack, and the magnificent job done in evacuating American wounded and saving their lives. In these front-line scenes is vividly shown how medical supplies from America mean the difference between life and death for our fighters.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-4	Machine Tools—The Lathe. <i>Gives nomenclature, practical uses and operation of the lathe.</i>	
1-5	Machine Tools—The Milling Machine. <i>Gives nomenclature, practical uses, and operation of the milling machine.</i>	
1-6	Machine Tools—Planers. <i>Gives nomenclature, practical uses, and operation of the planer.</i>	
1-7	Machine Tools—The Shaper. <i>Gives nomenclature, practical uses, and operation of the shaper.</i>	
1-8	Aerodynamics. <i>Describes the motion of air and the force it exerts upon moving solids; explains the way in which turbulence and skin friction oppose useful dynamic reaction.</i>	

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-9	Classification of Engine Types. <i>Depicts the methods of classifying aircraft engines as to type, in-line, V-type, double V-type, X-type opposed, radial, and according to cubic inch displacement.</i>	
1-11	Forced Landings. <i>Describes the general procedure to be followed in case of a forced landing; establish a safe glide, secure field, maneuver into best possible position for landing.</i>	
1-12	Using an Aircraft Machine Gun. <i>Explains nomenclature and operation of the .50 and .50 caliber guns, their synchronization with the propeller. Illustrates their installation on P-35, -P-38, P-39, P-43, and methods of firing from various positions.</i>	
1-13	Use of Aerial Chemical Spray Tanks. <i>Portrays the airplane chemical spray tank for dissemination during flight; preparation for filling the E6R9 tank; releasing smoke and gas in flight; precautions when filling and cleaning tank.</i>	
1-14	Browning Aircraft Machine Gun—.30 Caliber M2. <i>Explains the functioning of parts of the .30 caliber M2 during coil and countercoil.</i>	
1-15	Principles of Internal Combustion Engines. <i>Photographs and diagrams show the operation of a four-cycle aircraft engine. Common analogies used to illustrate basic principles.</i>	
1-16	Structural Units of the Airplane. <i>Illustrates the basic structural units of the airplane: fuselage, engine, mount, wings, stabilizer,</i>	

- 1-17 *cowling, and fairing. Shows internal construction of various units, and different types of construction.*
Aircraft Storage Batteries.
Describes types of batteries used on airplanes, and their operating principles. Explains function of container, plates, separators, electrolyte, vents, and terminals. Describes methods of charging and testing.
- 1-18 *Synchronization of Aircraft—Principles of Synchronization.*
Methods of synchronizing aircraft machine guns. Illustrates relationship and operation of four basic units: synchronizer, trigger motor, tube and wire assembly, and control unit.
- 1-20 *Enlarging Aerial Negatives:*
Shows how enlarging, reducing, and restitution of aerial negatives are accomplished with AF printer, type B-9.
- 1-21 *Assembling Aerial Photographic Mosaics.*
Describes equipment used in making aerial reconnaissance map. Illustrates processes involved: processing of film, numbering and checking negatives with index map, assembling prints, laying reconnaissance strip.
- 1-22 *Principles of Liquids and Gases.*
A discussion of basic physical principles as applied to liquids and gases, together with illustration of their application to the hydraulic system of the airplane.
- 1-23 *Introduction to Airplane Instruments.*
Principles of instrument operation, with discussion of electrical and mechanical types;
- 1-24 *Hamilton Standard 2-Position Propeller.*
Description of the Hamilton Standard two-position propeller: its purpose, use, limitations, structure, together with suggestions for inspection and maintenance.
- 1-26 *Tachometers and Synchronism Indicators.*
Operating principles of aircraft tachometers, with inspection and maintenance procedures: Application of systems of synchronization, with use of tachometers on multiple-engine installations.

16 FILM STRIPS

FS Serial No.	Subject	Remarks
1-27	Cylinder and Piston Assemblies. <i>Technical details of cylinder and piston. Illustrates inspection of cylinder and piston defects, and use of thickness gauge and micrometer.</i>	
1-28	Curtiss Electric Propeller. <i>Describes the Curtiss Electric propeller, aluminum and steel blade types. Gives particular attention to hub assembly and the electrical unit which changes angle of pitch.</i>	
1-29	Airplane Flight Control Surfaces and Wing Flaps. <i>Shows primary and secondary control surfaces; function of control surfaces; construction, maintenance, and inspection also covered.</i>	
1-30	Loading the Type T-3A Aerial Camera. <i>Step-by-step procedure in loading the type T-3A aerial camera.</i>	
1-32	The Sun. <i>An elementary study, produced in color, of the origin of the solar system, salient features of the sun's characteristics as well as its effect upon the earth.</i>	
1-33	Don'ts for Day Flying. <i>What not to do during daylight flying with respect to weather, operation instructions, engine, and other typical "don'ts."</i>	
1-34	Aircraft Engine Carburetion. <i>A thorough description of the carburetor, its construction and operation; outlines provisions made for unusual conditions to which aircraft carburetors are subject.</i>	
1-35	Connection Rods, Crankshafts, Bearings and Crankcases.	

Describes purpose, essential parts, and means of disassembling and assembling connecting rods, crankshafts, bearings, and crankcases.

1-36

Aircraft Gun Camera—Type H-3.

Description of the H-3 aerial gun camera: nomenclature, identification of parts, structure, use, operation, maintenance and inspection.

1-39

Aerial Bombs—Fusing and Handling of Loaded Bombs.

Shows detailed cross-section of both nose and tail fuzes. Gives nomenclature of various types of aerial bombs: explosives, fragmentation, demolition, and chemical.

1-40

Synchronization of Aircraft—Care and Maintenance of Synchronizing Units.

Describes the various steps in disassembly and assembly, care and maintenance of synchronizing units.

1-42

Flared Tubed Connections.

Assembly of tubing in the BC-1 airplane; fabrication of the tube flares over tightened assemblies; distorted flares and assemblies.

1-43

Synchronization of Aircraft—Disassembly and Assembly of the Trigger Motor.

Describes the disassembly and assembly, care, and maintenance of the trigger motor unit. Training and Duties of a Bombardier and Navigator.

1-44

An orientation film strip for prospective and beginning bombardier students. Refers to necessity for knowledge of mathematics. Depicts a sample bombing mission and the work of the bombardier. Shows training in navigation, a typical navigation mission, and working conditions of the navigator.

1-45

Aerial Bombs—Fusing and Handling of Practice Bombs.

Shows assembly of M38-A-2 practice bomb; inspection, preparation, and operation of sand loading the bomb. Also: M1-A1 spotting charge. M37 parachute fragmentation bomb; M104 practice fuses; fusing M37 with the M104.

1-46

Parachutes—Construction and Care of the Parachute.

Illustrates the various types of parachute assemblies, the three major units, and their construction. Also shows proper and improper methods of handling the parachute.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-47	Properties of Photographic Lenses. <i>Function of the lens; pinhole lenses; focal length of lenses; size of image; necessity for focusing the lens; and inversion of the image.</i>	
1-48	The Care and Cleaning of Photographic Lenses. <i>Emphasizes care of the lens to insure proper functioning, and precautions to be observed in their use. Shows methods of cleaning.</i>	
1-49	Parachutes—Folding and Packing. <i>Adjusting harness to the wearer. Inspection of parachutes to determine which are repairable and which should be condemned. Drop testing; cleaning and drying; system of storage and shipping.</i>	
1-50	Valve and Ignition Timing. <i>Depicts the valve operation of the four-cycle engine. Early and recent timing specifications. Illustrates valve-timing procedure on typical radial and liquid-cooled engines, and methods of checking ignition timing on standard types of engines.</i>	
1-51	Thermometer. <i>Describes the use, operation, and maintenance of various types of aircraft thermometers.</i>	
1-52	Pressure Gauges. <i>Application of pressure gauges on aircraft. Illustrates Bourdon mechanism, diaphragm mechanism, and aneroid mechanism.</i>	
1-53	Generator and Regulator Systems—Principles. <i>Gives details of the various inspections required on generator and regulator systems: daily, 25-, 50-, 100-hour, and special inspections.</i>	

- 1-54 **Synchronization of Aircraft—Impulse Tube and Wire Assembly.**
Discusses the inspection, care, and maintenance of the impulse tube and wire assembly and the control assembly of the synchronizing system.
- 1-55 **Nose Assemblies.**
Shows typical nose assemblies: propeller reduction gears, installation of thrust bearings, propeller oil control valves, and others. Complete assemblies for radial engines. Also shows methods of checking fire orders.
- 1-56 **Parachutes—Inspection.**
Illustrates the system of inspecting the service seal type parachute, both routine and complete inspections.
- 1-57 **Loading the Type A-1B Camera Magazine.**
Step-by-step procedure for loading the A-1B camera magazine.
- 1-58 **Fuel Level Gages.**
Illustrates mechanical and electrical gages, their operating principles, methods of inspection and maintenance.
- 1-59 **Mathematics for Navigators.**
Covers the topics included in refresher course of mathematics for bombardiers and navigators. Discusses logarithms, trigonometric functions, solution of triangles, slide rule, definition of terms.
- 1-60 **Aircraft Engine Pumps:**
Describes coolant, fuel, and oil pumps; various types of vacuum pumps. Explains the relief valve.
- 1-61 **Formation Flying.**
A film strip on the three-plane element in formation flying designed for the elementary flying student: responsibility of the wingmen; position of the leader and his responsibilities; principles of formation flying; simple rules; formation flying signals.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-62	Hamilton Constant Speed Propeller: <i>Pictures the component parts of the Hamilton constant speed propeller; principles of operation; inspection and maintenance procedures.</i>	
1-63	Effective Study Methods. <i>Discusses the most effective methods of studying; study conditions and techniques; assignments and note taking.</i>	
1-64	Intake and Exhaust Systems: <i>Diagrams the essential elements of a simple intake and exhaust system; intake and exhaust systems for radial and V-type aircraft engines. Gives simplified explanation of the supercharger. Outlines maintenance and inspection procedures for intake and exhaust systems.</i>	
1-65	Aerial Bombs—Equipment for Loading. <i>Illustrates equipment for the loading of aerial bombs of all sizes, from 50 to 2,000 pounds: M-5 trailer, M-1 truck, D-6 and B-7 bombshakles, the C-3 bomb hoist, and the various types of bomb racks and bomb releases.</i>	
1-66	Aircraft Engine Troubles—General. <i>Describes common engine troubles in the compression and ignition systems; causes of improper compression; ignition troubles caused by defective spark plugs.</i>	
1-67	Aerial Navigation—Radius of Action Returning to Same Base. <i>Treats determining factors, terminology, and ideal solution.</i>	
1-68	Aerial Navigation—Radius of Action Returning to Alternate Base. <i>Shows ideal solution through development of factor diagram; effect of data change.</i>	

- 1-69 Cross Country by Maps.
Uses a cross-country navigation problem to show general principles applicable to other map problems; Explains conventional symbols and logs.
- 1-70 Aerial Traffic Patterns.
Discusses reasons for establishing aerial traffic patterns; check points, field traffic and squadron patterns, and night flying.
- 1-71 System of Procurement and Exchange of Aircraft Parts.
Illustrates system of securing replacement parts. Schematic diagram shows the flow of parts from depot to repair hangar.
- 1-72 Aircraft Engine Operation.
Gives procedures for starting up, warming up, ground testing, and stopping aircraft engines. Illustrates operation under various flight conditions.
- 1-73 Aircraft Inspection Procedures.
Designed to show the aviation cadet the procedure by which his airplane is maintained.
- 1-74 Aircraft Engine Lubricants.
A film strip produced in color to show the physical properties of lubricants, and their application to aircraft.
- 1-75 Hamilton Standard Hydromatic Propeller.
Indicates the special features, purpose, use, and limitations of the Hamilton standard hydromatic propeller; the various subassembly units; suggestions on inspection and maintenance.
- 1-76 Aircraft Maintenance Inspection—Inspection of Camera.
Portrays the photographer adjusting and inspecting the camera prior to take-off, and entering data on Form 41.
- 1-77 Aircraft Engine Fuels.
Deals with the fuel specifications and special requirements of the aircraft engine. Volatility, octane rating, and purity are discussed, as well as methods of storing and handling fuels.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-80	Antennas. Discusses sound and light wave phenomena; production of radio waves; the electromagnetic spectrum; loading and feeding of antenna; ground system. Also covers propagation of radio waves; radiation patterns; use of loop antenna; radio range stations, and aircraft antennas.	
1-81	Aircraft Maintenance Inspection—Inspection of Armament. Outlines the correct routine in preflight inspection of aerial guns.	
1-82	Aircraft Engine Troubles—Starting. Aircraft engine starting difficulties are discussed under the following headings: cold weather, carburetion, compression, ignition, and starter.	
1-83	Parachutes—Instruction for Using Parachutes. Shows how to handle and inspect the parachute immediately before use; how to make the jump; how to land on ground; how to land on water.	
1-84	Aerial Navigation—Interception. Sets forth the responsibility of the navigator in the interception of enemy sea or aircraft. Explains the purpose and methods of interception, using the principles of lead.	
1-85	The A-2 Bomb Release. Shows the components of the A-2 bomb release, internal and external structure. Includes installation, wiring system, and functioning of shackles. Gives special attention to the two skip station features of the release.	
1-86	Alternating Current. An elementary introduction to principles of alternating current. Demonstrates and explains	

- 1-87 *Lenz' Law, simple wave alternator; some discussion of frequency, effective value, voltage-current-time relationship, and power.*
The M-103 Nose Fuse.
Uses photographs, drawings and diagrams to explain use, nomenclature, and functioning of the M-103 nose fuse. Diagrams show the relationship of various parts. Depicts setting for delay and instantaneous firing. Also treats safety features and precautions.
- 1-88 *Aerial Navigation—Solutions of Radius of Action Problems.*
Explains computations and construction for distance-fuel graph, and use in preflight computations with wind zones. Interpretation of graph with reference to actual flight and critical points.
- 1-89 *Aerial Navigation—Patrol and Search.*
Defines search mission, and sets forth responsibility of navigator. Defines terms, and describes factors affecting methods of search, and common patrol patterns.
- 1-90 *Glider Training—Classes of Gliders.*
Describes types of gliders, arrangement of wings, and instruments used.
- 1-91 *Glider Training—Aerodynamics.*
Discusses the aerodynamics of gliders as related to construction and operation.
- 1-92 *Glider Training—Care of Equipment.*
Shows method of handling glider, mounting glider on dolly, moving glider, disassembling glider, loading sections on trailer, unloading and inspection procedure, making repairs, and making out report forms. Reassembly of the TF-2.
- 1-93 *Glider Training—Tow Ropes and Cables.*
A description of ropes and cables used in operation of gliders; methods of splicing; also treats subject of glider releases.
- 1-94 *Glider Training—Launching Equipment.*
Shows four types of launching equipment with methods of using each type, from pre-take-off to release. Stresses safety precautions. Describes take-off technique.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-95	Glider Training—Approaches and Landings. <i>Pictures the proper approach and landing procedure for landing on large and small fields in various types of weather conditions. Indicates methods of control by use of spoilers and drag flaps.</i>	
1-96	The M-106 Tail Fuse. <i>Describes the use, installation and sequence of operation in handling this arming pin, delay action fuse. Function of each part is described.</i>	
1-97	Primary Pilot Training. <i>Designed to acquaint the primary flying student with PT airplane controls; proper care of equipment; use of hand signals.</i>	
1-98	Effect of Controls. <i>A film strip for use with elementary aviation pilots and instructors describing function of basic controls and what happens when each is used. Explains coordination of controls, and stresses the elimination of "manhandling" controls.</i>	
1-99	Aerial Bombs—Method of Loading Bombs. <i>Explains the procurement, arming, loading, inspection and safety precautions associated with handling of aerial bombs. Procedure of Ordnance and Army Air Forces personnel is illustrated with B-18 and B-17E airplanes.</i>	
1-100	Starting Systems—Maintenance. <i>General information for daily, preflight, and periodic inspection and maintenance of direct cranking, inertia, cartridge type aircraft starting systems, and the portable field energizer is covered. Also treats method of sealing new brushes, and care of commutator.</i>	

- 1-101 **Aircraft Engine Maintenance.**
General instructions for inspection and maintenance of radial and liquid-cooled aircraft engines. Treats ground operation of engines, instrument and controls checks, ignition checks, and the keeping of maintenance records forms.
- 1-102 **Printing Aerial Film.**
Shows proper method of printing aerial film, with particular emphasis on the care required in printing mosaic assemblies.
- 1-103 **Aerial Navigation—Star Identification.**
Gives the names of the principal navigational stars, and describes means of recognizing them by certain reference constellations and geometric patterns.
- 1-104 **General Principles of the Propeller.**
Describes function and operation of the aircraft propeller. Explains thrust, pitch, angle, slip feathering, and windmilling. Traces development of modern propeller.
- 1-107 **The P-40 Hydraulic System—Operation.**
Presents the operation of the component parts of the P-40 hydraulic system: power section, wing flap section, landing gear section, emergency extension system, position indicating system, gun charging system, and hydraulic brake system.
- 1-108 **The P-40 Hydraulic System—Inspection and Maintenance.**
Presents the periodic inspection and maintenance of the P-40E-1, complete checking, methods of bleeding the system, replenishing of hydraulic fluid. Points out parts subject to wear, and shows methods of adjustment.
- 1-109 **Starting Systems.**
The theory and operation of starting systems on aircraft engines; inertia starters, direct cranking starters, handturning gear type starters, air injection starters, and the cartridge starter.
- 1-110 **The Army Air Corps Song.**
A film strip presenting the words of the official AAF song, "The Army Air Corps."

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-111	Typical Instrument Installations in Cockpits. <i>Shows typical installations of instruments, panels, hardware, and their inspection and maintenance. Presents general problems to be encountered in installation.</i>	
1-112	Aircraft Engine Troubles—Operating. <i>Discusses the most common engine troubles as to cause, results, trouble-shooting, preventive action, and repair. Covers ignition, fuel, oil, generator, and cooling systems.</i>	
1-113	Hydraulic System Units—A Simple System. <i>Contains a detailed description of the complete hydraulic system of an airplane, with explanation of the operation of the various units of the system.</i>	
1-139	Ignition Systems—Maintenance. <i>Deals with maintenance of aircraft ignition systems, including periodic inspection of magnetos, spark plugs, boosters, switches and wiring.</i>	
1-140	Generator and Regulator Systems—Maintenance. <i>Demonstrates preflight inspection of the generator, elementary repairs of generator and regulator. Care of batteries is briefly described.</i>	
1-141	Ignition Systems—Principles. <i>Summarizes magnetic and electromagnetic induction. Demonstrates heat generation by the arc, gap distance, electrode shape, gas pressure and voltage as variables. The functions of ignition condensers and distributors are explained.</i>	
1-142	Aircraft Maintenance and Inspection—The Mechanic's Duties. <i>Shows the mechanic's duties in 50-hour and subsequent inspections. Illustrates prescribed</i>	

- 1-143 *operations being performed on P-38 and B-25: propellers and accessories, power plant, manifold and supercharger, cooling systems. Explains use of Form 41.*
- 1-146 *Glider Training—Airwork. Describes technique of glider airwork: level flights, turns, stalls, spins and spiral dives.*
- 1-147 *Glider Training—Soaring Technique. The use of hills for utilizing wind current deflection is illustrated, as well as proper place on ridges for safe gliding and soaring. Gives general description of thermals. Discusses danger of cumulo nimbus clouds.*
- 1-148 *Flight Control Mechanisms. Manner and mechanisms by which flight controls actuate control surfaces are shown, together with resulting regulation of airplane movement. Classifies and locates the primary and secondary controls. Demonstrates use of tensiometer and control stop setting.*
- 1-149 *Aircraft Compasses. Describes the principles governing functioning of aircraft compasses, their construction and procedures for checking and compensating on the ground and in the air.*
- 1-150 *The Automatic Pilot. Contains a complete description of the A-2, automatic pilot, its operation and maintenance, together with inspections and repairs.*
- 1-151 *Flight Reports—Air Corps Forms 1 and 1A. Teaches the proper procedure for proper handling of airplane flight report Forms Nos. 1 and 1A. Portrays purposes, functions and use of these forms.*
- 1-152 *Operation of the Type A-5 Roll Film Dryer. Detailed procedure for loading and operating the A-5 roll film dryer.*
- 1-153 *The Airplane Mechanic. Gives a general survey of the work of the airplane mechanic. Ground crews for all types of airplanes are pictured. A complete inspection routine is demonstrated, with examples of second, third and fourth echelon work.*

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-153	Loading the Type A-5 Camera Magazine. <i>Step-by-step procedure for loading the A-5 camera magazine; checking magazine, loading film, filling out data card, and use of the field loading bag.</i>	
1-154	Aircraft Gyro Instruments. <i>Presents the principles of operation, construction, inspection, and maintenance of aircraft gyro instruments: bank and turn indicator, and flight indicator.</i>	
1-155	Preliminary Instrument Instructions. <i>Outlines the principles of the 1-2-3 system of instrument flying assumed on the basis of a fixed power output. Gives definitions, functions, and operation of the bank and turn indicator, air speed indicator, and procedures for correction of error.</i>	
1-156	Installation of Bomb Hoists—The B-17 Series. <i>Shows the general method of installing bomb hoists in the B-17 series airplane, and the procedure for handling light and heavy bombs with the C-3 hoist.</i>	
1-157	Aerial Navigation—Use of the E-6B Computer Face. <i>Demonstrates the use of the E-6B Computer, front face only. Discusses logarithmic principle, scale reading, shift of decimals, problems in radius of action, speed-time-distance, true altitude, true airspeed, fuel consumption, use of scales for converting distance units.</i>	
1-158	Parachutes—Fitting and Adjusting Harness. <i>Depicts the method of adjusting the parachute harness to the wearer; the shoulder straps, breast straps, leg straps, and other necessary tacking.</i>	
1-159	Hydraulic System Units—Actuating Cylinders, Locking Devices and Motors. <i>Explains essential features of the actuating cylinder: double, dual, pivoted, and cannon</i>	

- 1-160 *charger cylinders. Shows cylinder installation on hydraulic brakes, special locking devices, gear type and piston type motors.*
- Radiation.
- 1-161 *Background material for weather students, consisting of: black body radiation, Wein's Law, Stefan's Law, Kirchoff's Law, solar and terrestrial radiation, heat balance, temperature inversions, and related fogs.*
- Ignition Systems—Spark Plugs and Ignition Harness.
- 1-162 *Illustrates ordinary and shielded plugs of mica and ceramic construction, purposes of hot and cold operating plugs, proper installation, high-tension leads and terminal clips. Shows shielded and unshielded ignition manifolds before and after installation on radial and in-line engines.*
- Ignition Systems—Boosters, Switches, and Typical Systems.
- 1-163 *Explains necessity for booster units, their theory and operation. Shows off-on switches, A-8 and A-9 switches, B-4 and B-5 switches. Gives operating procedures for starting and testing; emphasizes safety precautions.*
- Pitot-Static Flight Instruments.
- 1-164 *Describes airspeed tube, with Pitot tube, heater, and static chambers. Relates airspeed tube to airspeed indicator. Demonstrates barometric and thermal corrections of altimeter.*
- Aircraft Engine Storage and Shipment.
- 1-165 *Illustrates the details of engine treatment: initial, temporary, and extended storage. Depicts preparation of engines for use after treatment. Animated drawings explain corrosion sources. Also shows humidity tests, care of accessories, and protective coverings.*
- Harmonization of Guns and Sights.
- 1-167 *Demonstrates harmonization on a P-40 plane. Step-by-step demonstration and mathematical explanation of close range bore sighting, use of sight chart, lifting bar, jacks, bevel protractor, leveling lugs, reflector, and plug.*
- Checking Aircraft Cylinders.
- 1-168 *Illustrates the technical orders, precision tools, and procedures involved in checking cylinder, piston, rings, and valve parts.*

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-168	Propeller Anti-Icer Equipment. <i>Presents information on installation, inspection, and maintenance of Pesco and Eclipse anti-icer equipment for aircraft propellers.</i>	
1-169	Aircraft Carburetor. <i>Illustrates typical classifications of aircraft carburetors; diagrams their operating principles; points out maintenance and inspection procedures.</i>	
1-170	Aircraft Engine Testing. <i>Describes block testing of aircraft engines as it relates to repair depots: duration of test, type of fuel, grade of oil, and test clubs. Also illustrates ground and flight testing.</i>	
1-171	Martin Turret—Operation. <i>Describes the operation of the Martin upper turret; the armament, including ammunition feeding mechanism.</i>	
1-172	General Maintenance and Repair of Propellers. <i>Covers general propeller maintenance which can be accomplished by first echelon activities.</i>	
1-173	Aircraft Engine Control Systems. <i>Discusses function, maintenance, and inspection of aircraft engine control systems: throttle, mixture and fuel injector units, carburetor air heat control, supercharger, radiator and cowling shutters, spark and propeller controls.</i>	
1-174	Parachutes—Cleaning, Storage, and Shipment.	<i>Depicts the proper method of cleaning, drying, storing and shipping parachutes.</i>
1-175	Inductance.	

- 1-176 Discusses the principle of electrical inductance, and types of electrical inductors.
Capacitance.
Discusses the principle of electrical capacitance, and types of capacitances (condensers).
- 1-177 Vacuum Tubes—Fundamentals.
Discusses the Edison effect, electron emission, operation of the diode tube, triode, tetrode, pentode, special purpose tubes, and the cathode ray tube.
- 1-178 Tires, Tubes and Wheels.
Discusses aircraft tires, tubes, and wheels: types, and maintenance and inspection procedures.
- 1-179 Drilling Practice—Drills, Grinding and Hand-Drilling.
Gives nomenclature and types of metal-cutting drills; types of grinders, methods of operation, and correct grinding for different purposes; portable drills.
- 1-180 Drilling Practice—Power Drilling, Care of Drills, Safety Precautions.
Nomenclature of parts and operation of the drill press; care of drills; safety precautions for operators.
- 1-181 Aircraft Engine Cooling.
Principles of aircraft engine cooling; construction of cooling systems; coolants; inspection procedures.
- 1-182 Vacuum Tube Detectors.
Describes elements and principles of vacuum tube detectors: diode, bias, grid leak, heterodyne, and autodyne detectors.
- 1-183 Ground Adjustable Propellers.
Nomenclature, construction, and methods of installing and inspection ground adjustable aircraft propellers.
- 1-184 Aircraft Maintenance Inspection—Armament Other Than Guns.
Shows the prescribed routine in making a preflight inspection of the operation of bomb bay doors, bomb releases, bomb racks, tow target mechanism, and gun camera.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-185	Air Forces Supply System—Organization of subdepot. <i>Outlines the organization, administration, necessary personnel, basic records, and warehousing procedure for the subdepot.</i>	
1-186	Air Forces Supply System—Contracting and Purchasing Section. <i>Describes the functions of the subdepot Contracting and Purchasing Section: details procedure for procurement by local purchase.</i>	
1-187	Air Forces Supply System—Memorandum Receipts. <i>Gives detailed explanation of purpose and use of Memorandum Receipt (A.C. Form 99).</i>	
1-188	Air Forces Supply System—Receiving and Shipping. <i>Explains the functions of the Receiving and Shipping Section of the subdepot; checking incoming shipments, noting shortages and damages, packing and checking outgoing shipments, and use of necessary forms.</i>	
1-189	Camouflage of Aircraft and Airdromes. <i>The subject of camouflaging building, aircraft, trucks, supply dumps, runways, etc., is presented in color. Decoy runways are described; suggestions for dispersal of material; things to do and not to do within the environs of airdromes.</i>	
1-190	Aircraft Engine Lubrication. <i>Purpose of aircraft engine lubrication as applied to both liquid and aircooled engine systems; regulation of oil temperature; inspection and maintenance of lubrication systems.</i>	
1-191	Aerial Navigation—Lambert-Conformal and Mercator Projections. <i>Explains the principles, use, and limitations of Lambert-Conformal and Mercator projections as related to aerial navigation.</i>	

- 1-192 **Fire Prevention Rules.**
Presents fire prevention rules for aircraft and Army Air Forces installations, under the following headings: general precautions; precautions in fueling; storage and use of inflammables; precautions in maintenance and inspection. Also types and uses of portable extinguishers.
- 1-193 **Maintenance Records and Reports—Part I.**
Presents forms in Army Air Forces maintenance work: Forms Nos. 41, 9, 15, 17, 23, 46, 49, 50, 51, 83, 83a, 54, 55, 58, 60a, 60b, 61, 81, 82, 99, 249, and I.G.D. Form No. 1.
- 1-194 **Maintenance Records and Reports—Part II.**
Presents forms used by the Army Air Forces for reporting and recording maintenance status and flight data of aircraft: Forms Nos. 1, 1a, 41, and 41b.
- 1-195 **Vacuum Tubes—Rating and Testing.**
Discusses the following ratings: current and voltage, plate dissipation, plate resistance, amplification factor, and transconductance. It describes the following tube tests: short, emission, open, static transconductance, and dynamic transconductance. The virtual cathode is described.
- 1-196 **Vacuum Tubes—Amplification Fundamentals.**
Explains amplification as a term, shows some practical applications, discusses the difference between a.f. and r.f. amplification, and describes classes of operation of vacuum tubes. It shows different methods of obtaining grid bias voltage, discusses coupling methods, and describes push-pull operation of tubes.
- 1-197 **Radio Receivers.**
Amplification, selectivity, and fidelity are explained, also the use of pentode tubes, coupling methods, and manual gain control. Push-Pull class A phase inversion and inverse feed back, loudspeakers, the superheterodyne system and photographs of various types of receiving sets are covered in this film.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-198	Airplane Mechanics' Hand Tools—Adjusting and Assembling Tools—Part II. <i>Presents the proper identification and use of airplane mechanics' hand tools: screw driver, pliers, soldering coppers, blow-torch, screw and cotterpin extractors, valve stem fishing tools. (See also FS 1-340.)</i>	
1-199	Air Forces Supply System—The Subdepot Requisition Section. <i>Duties of requisition section, procedure in handling A.A.F. Form No. 102; use of Stock Lists; use of Stock Record Card; handling of stock on order; Stock Order form; working for "minimum balances"; making routine requisitions; proper days for ordering various classes; "Special" requisitions; purchases locally (A.A.F. Form No. 97).</i>	
1-200	Hydraulic Airplane Jacks. <i>Describes hydraulic airplane jacks: their purposes, types, operation, and maintenance.</i>	
1-201	Soldering Practice—Part I. <i>Presents soldering equipment and materials; soldering copper, solders, heating sources, cleaning aids, fluxes.</i>	
1-202	Soldering Practice—Part II. <i>Explains the soldering process: preparing the soldering copper, preparing the work, applying the solder, safety precautions.</i>	
1-203	Aerial Navigation—The Celestial Sphere. <i>Explains the concept of the celestial sphere and defines the terms used in celestial air navigation.</i>	
1-204	Ignition Systems: Magnetos. Part I—Magnet and Coil Systems. <i>Presents magnet system and coil systems of high-tension rotating magnet-type magneto.</i>	

- 1-205 Ignition Systems: Magnetos. Part II—Breaker and Distributor Systems.
Presents breaker and distributor system of the high-tension rotating magnet type magneto.
- 1-206 Ignition Systems: Magnetos. Part III—Types and Disassembly.
Presents magnetos: double type, eight-pole type, polar inductor type; external features; disassembly; identification symbols.
- 1-207 Ignition Systems: Magnetos. Part IV—Timing.
Explains magneto timing gear ratios, compensating cam magnetos, coming-in speed.
- 1-208 De-Icing Equipment.
Presents de-icing system units and their functions.
- 1-209 Aerial Navigation—Time and Time Diagram.
Discusses the sun and Aries as bases for measuring time; and the function of the Time Diagram. Defines and explains pertinent terms.
- 1-210 Airplane Mechanics' Hand Tools—Abrasive Tools.
Describes types, nomenclature, use, and care of abrasive tools; stresses safety precautions.
- 1-211 Electrical Armament Controls.
Explains operating principles and function of typical electrical armament controls on military aircraft.
- 1-212 Aircraft Material—Nonferrous Metals.
Uses of nonferrous metals in aircraft construction and maintenance.
- 1-213 Fire Extinguishing Equipment.
Types, use, operation, and maintenance of fire extinguishing equipment used on aircraft.
- 1-214 Shielding and Bonding.
Discusses purpose of shielding and bonding electrical connections on aircraft; tools used; methods used.
- 1-215 Towing, Mooring, and Handling Airplanes.
Discusses towing, mooring, handling, jacking, and hoisting airplanes.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-216	Cockpits and Cabins. <i>Presents a general discussion of aircraft cockpits and cabins; their purposes, types, compartments, and accessories.</i>	
1-217	Airplane Mechanics' Hand Tools—Penetrating and Threading Tools. <i>Presents the tools used in penetrating and threading work; their identification, use, care, and safety precautions.</i>	
1-218	Airplane Mechanics' Hand Tools—Forming and Holding Tools. <i>Presents the identification, use, care, and safety precautions for holding and forming tools.</i>	
1-219	Airplane Mechanics' Hand Tools—Measuring and Layout Tools. <i>Presents measuring and layout tools; their identification, care, use, and safety precautions.</i>	
1-220	Martin Turret—General Maintenance. <i>Describes general maintenance procedures for the Martin power-operated gun turret (upper), original type.</i>	
1-221	Hydraulic System Units—Reservoirs and Miscellaneous Equipment. <i>Describes the purpose, construction, and operation of reservoirs and miscellaneous equipment on the hydraulic system.</i>	
1-222	Securing and Locking Devices Used in Airplane Maintenance. <i>Deals with cotter pins, safety wire, and lock nuts; their identification, tools required, and methods of installation.</i>	
1-223	A-2 Portable Photographic Laboratory. <i>Preparing for a mission; setting up in the field; internal arrangement.</i>	

- 1-224 **Glider Instruments—General.**
A general treatment of construction and servicing glider instruments.
- 1-225 **Air Forces Supply System—The Subdepot Warehouse.**
Describes system of storage of property in the subdepot warehouse section.
- 1-226 **Hydraulic System Units—Power Pump and Hand Pump.**
Describes the purpose, construction, and operation of power pump and hand pumps in hydraulic systems.
- 1-227 **Hydraulic System Units—Control Valves.**
Presents hydraulic system control valves in selectors, wing flaps, landing gear, and gun charger.
- 1-228 **Drilling Practices—Precision Drilling.**
Describes installation of drill press, aligning the drill press tools, holding and positioning the work, and various uses of the drill press in precision work.
- 1-229 **Aerial Navigation—The Radio Compass.**
Details the operation of the radio compass.
- 1-230 **The Soldier's Qualification Card.**
Explains preparation and use of the soldier's qualification card, W.D., A.G.O. Form No. 20.
- 1-231 **Aircraft Wiring Systems. Part I.**
Explains types of aircraft electrical wiring systems, low current-low voltage wiring, blueprint symbols, and aircraft wiring circuits.
- 1-232 **Aircraft Wiring Systems. Part II.**
Shows methods of wire testing in aircraft electrical systems, preparation of cables, replacing defective wire in rigid harness.
- 1-233 **Hydraulic System Units—Pressure Control Valves and Relief Valves.**
Describes the purpose, construction, and operation of control valves and relief valves in the airplane hydraulic system.

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FS Serial No.	Subject	Remarks
1-234	Hydraulic System Units—Brake Master Cylinders. <i>Describes the purpose, construction, and operation of the brake master cylinder in the airplane hydraulic system.</i>	
1-235	Oxygen Equipment. <i>Presents the description, use, operation, and maintenance of airplane oxygen equipment.</i>	
1-236	Air Forces Supply System—The Subdepot Warehouse Section: Receiving and issuing of property. <i>Describes procedures for receiving and issuing property in the subdepot warehouse section, and explains the use of such forms as Nos. 100, 82, 104A, and 99.</i>	
1-237	Airplane Landing Gear. <i>Describes the function, types, operation, inspection, and maintenance of airplane landing gear.</i>	
1-238	Sperry Power Turret (Upper Local)—Operation and Maintenance. <i>Describes operation and adjustment of elevation limit stop, operation and adjustment of the fire cut-off unit, the electrical support, and other adjustments and set-up procedures.</i>	
1-239	Terms Used in Photographic Optics. <i>Explains the meaning of common optical terms encountered by the student; discusses focal plane, focal length, angle of field, angle of view, depth of field, lens speed, and characteristics of lenses.</i>	
1-240	Squadron Supply—Issue of Clothing to Enlisted Men. <i>Describes routine duties of the quartermaster, squadron supply clerk, and squadron commanding officer in issuing clothing to enlisted men; gives detailed directions for use of such</i>	

forms as W.D., A.G.O. Form No. 35, Q.M.C. Form No. 409, A.G.O. Form No. 32, Q.M.C. Form No. 499, and EXO-1.

1-241 Glider Woodworking—Glues and Gluing.

Presents casein and synthetic resin glues, showing preparation, mixing, application, and testing of casein glue, with particular reference to its use in glider woodworking.

1-242 Glider Woodworking—Wood.

Describes structure, grain, and defects of wood, and instructs glider mechanics students in the selection of wood suitable for glider repair.

1-243 Martin Power-Operated Gun Turret—Trouble-Shooting.

Shows possible sources of trouble for the following situations: motor generator fails to run, turret fails to operate with motor generators running, turret operates sluggishly, irregularly, or at improper speeds; illustrates proper seating of generator brushes.

1-244 Radio Transmitters.

Describes the development of the radio transmitter, its historical background, and the components of vacuum tube transmitters and their common use.

1-245 AC and DC Measuring Instruments.

Presents the fundamental theory, construction, operation, use, and care of A-C and D-C meters.

1-246 Aircraft Radio Batteries.

Describes the use and fundamental theory, construction, and care of primary and secondary batteries as used in aircraft radio equipment.

1-247 Reactance and Impedance.

Presents reactance and impedance with their relations to alternating current.

1-248 Resonance.

Explains the theory and common applications of resonance and resonant circuits in aircraft radio.

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-249	Aerial Navigation—Earth's Surface. <i>Defines and explains such concepts as: parallels of latitude, meridians, coordinates, statute and nautical miles, Great Circle and rhumb-line courses.</i>	
1-250	Aerial Navigation—Vector Diagrams and Graphic Solutions. <i>Defines such navigational terms as: true heading, true course, track, true airspeed, ground speed, and drift. Illustrates graphic solution of typical problems.</i>	
1-251	Airplane Brakes and Actuating Systems. <i>Describes the purpose, operation, type, inspection, and maintenance of airplane wheel brakes and actuating system with particular reference to the B-25 and B-26.</i>	
1-252	Operational Instructions for the SCR-183. <i>Explains the use of the SCR-183 set as installed in the BT-13 plane; shows location of various controls; explains tuning and elementary operation for the student pilot.</i>	
1-253	Martin Power-Operated Gun Turret—Inspections. <i>Describes the various inspections involved in maintenance and servicing of the Martin power-operated gun turret, upper original type; preflight, after-flight, 25-hour, 50-hour, and 100-hour.</i>	
1-254	Filters. <i>Explains the principles, applications, and construction of low-pass filters, high-pass filters, band-pass filters, and bank-stop filters as they are used in radio.</i>	
1-255	Teletype Equipment: Mechanical Forces Used in the Six Functions. Part I—General Operations. <i>Shows the general operations of functions of the model 15 teletype page printer.</i>	

- 1-256 Teletype Equipment: Mechanical Forces Used in the Six Functions. Part II—Line Feed.
Explains the mechanical action of the line feed functions of the model 15 teletype page printer.
- 1-257 Aircraft Materials—Ferrous Metals.
Presents the properties of metals with special reference to ferrous metals used in aircraft construction and maintenance.
- 1-258 Aircraft Materials—Nonmetallic Materials.
Presents the uses in aircraft construction and maintenance of such nonmetallic materials as fabric, plastics, safety glass, rubber, and wood.
- 1-259 Aircraft Materials—Protective Coatings and Finishes.
Presents protective coatings and finishes and their uses in aircraft construction and maintenance.
- 1-260 Fundamentals of Arc Welding—Part I.
Explains arc welding circuits, equipment, striking an arc, and safety precautions.
- 1-261 Hydraulic System Units—Brake Control Valves and Debooster Valves.
Describes the purpose, construction, and type of power brake control valves and brake de-booster valves in the aircraft hydraulic system.
- 1-262 Measurement of Absolute and Differential Pressure—Part I.
Presents explanations of atmospheric, absolute and differential pressures, and methods of measuring them by means of mercury columns, aneroids, and diaphragms.
- 1-263 Measurement of Absolute and Differential Pressure—Part II.
Presents the principles of operation and use of manometers, and procedures for cleaning manometers and mercury.
- 1-264 Sheet Metal Work—Developing Patterns by Triangulation.
Describes the use of triangulation in developing patterns of irregular sheet metal objects.
- 1-265 Maintenance Publications.
Discusses the nature and use of information contained in AAF Regulations, Air Corps Circulars, Technical Orders, Handbook of Instruction, Stock Lists, and Book of Standards.

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FS Serial No.	Subject	Remarks
1-266	Curtiss Electric Propeller (Standard Unit)—Disassembly of the Power Unit. <i>Details the disassembly of the power unit of the Curtiss standard unit electric propeller; power gear, brake, motor, speed reducer, and spiders.</i>	
1-267	Power Transformers in Aircraft Radio. <i>Presents the theory, construction, and applications of power transformers as used in aircraft radio.</i>	
1-268	Aerial Navigation—Motions of Celestial Bodies. <i>Discusses the planetary system, motions of the earth, generation of seasons; identifies the fixed navigational stars.</i>	
1-269	Aerial Navigation—Introduction and Aids to Radio. <i>Presents the navigational theory and use of radio compass RDF stations, radio range stations, and radio marker beacons.</i>	
1-270	Aerial Navigation—Radio Bearings. <i>Defines true, relative, and reciprocal bearings; method of determining true bearing; plotting radio bearings on the Mercator and DF charts.</i>	
1-271	Take-Offs and Landings in Basic Training—Take-offs. <i>Describes procedures to be followed by the pilot in basic flying training: plane check, taxiing procedure, and short field take-offs.</i>	
1-272	Take-Offs and Landings in Basic Training—Landings. <i>Describes procedures to be followed by the basic flying student in landing, including taxiing and drift control; points out common landing errors.</i>	

- 1-273 Maintenance of the CG-4A Cargo Glider—Preflight Inspection.
Describes construction and use of the CG-4A cargo glider and its preflight inspections; flight instrument check, cockpit and cabin inspection, exterior inspection, and operational check.
- 1-274 Power Generators in Aircraft Radio.
Presents the theory, construction, and application of A-C and D-C power generators as used in aircraft radio.
- 1-275 The Telephone Central Office Set TC-4—Assembly and Dismantling.
Assembling and dismantling the TC-4 set: assembling switchboard BD-95 and operator's seat, assembling panel BD-97, connecting switchboard to panel, and procedures for dismantling and packing.
- 1-276 Glider Covering Blanket Method.
Describes the method used in making and applying a blanket type cover to a glider wing structure.
- 1-277 Repair of Glider Fabric Covers.
Presents the methods of repairing damaged glider fabric covers; repairing holes and tears under 3 inches, repairing tears that require sewing, applying the finish, sewn patch repair, replacing panels, and interlacing.
- 1-278 Airplane Mechanics' Hand Tools—Punching and Cutting Tools.
Presents the identification, use, care, and safety practices for punching and cutting tools used by airplane mechanics—punches, saws, chisels, snips, and shears.
- 1-279 Aircraft Safetying—Using Securing and Locking Devices.
Stresses proper methods of installing cotter pins, lock nuts, check nuts, safety wire and other devices used in aircraft safetying.
- 1-280 Direction Finding Procedure.
Describes the procedure used by aircraft in obtaining radio bearings and radio fixes from direction finding (D/F) stations.

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FS Serial No.	Subject	Remarks
1-281	Aircraft Landing Code. <i>Explains the method of handling confidential weather reports by means of the Aircraft Landing Code (ALCO).</i>	
1-282	Marker Beacon Receiver. <i>Presents the use, operation, and maintenance of marker beacon receiving equipment (RC-43-A) as used in military aircraft.</i>	
1-283	Interphone Equipment R-36. <i>Shows the operation of aircraft interphone equipment R-36.</i>	
1-284	QDM Procedure. <i>Demonstrates QDM procedure for the pilot and the radio operator.</i>	
1-285	Oxygen Cutting—Part I. <i>Presents the general uses of oxygen-cutting equipment, and procedures for hand-operated and machine-operated torches.</i>	
1-286	Oxygen Cutting—Part II. <i>Discusses factors affecting quality of the cut, aids in making various types of cuts, and the cutting of alloy steel and cast iron.</i>	
1-287	Lathes—General. <i>Discusses types of lathes, their essential features, uses, and safety precautions.</i>	
1-288	Teletype Equipment: Mechanical Forces Used in the Fix Functions. Part III—Letters Shift and Figures Shift.	

- 1-289 *Presents the mechanical action of the letters shift and figures shift functions of the Model 15 teletype page printer, and the operation of the sixth vane.*
Curtiss Electric Propeller (Standard Unit)—Disassembly of Hub and Blades.
Details the disassembly of the hub, slip ring, brush block, and both hollow steel and aluminum alloy blades.
- 1-290 *Hamilton Standard Hydromatic Propeller—Assembly and Adjustment of Dome and Distributor Valve.*
Illustrates the assembly and adjustment of dome and distributor valve.
- 1-291 *Preflight Inspection of the A-24—The Crew Chief.*
Describes procedures followed in preflight inspection before starting the engine, during engine warm-up, and after engine warm-up.
- 1-292 *Dead Weight and Master Gage Testers—Part I.*
Presents the principles of hydraulic pressure and its use in the operation of the American dead weight tester.
- 1-293 *Dead Weight and Master Gage Testers—Part II.*
Presents the operation and use of an inch and star brass dead weight testers and master gage testers.
- 1-294 *Hamilton Standard Hydromatic Propeller—Disassembly of Hub and Blades.*
Details the disassembly of the hub and blades of the Hamilton standard hydromatic propeller.
- 1-295 *Hamilton Standard Hydromatic Propeller—Disassembly of Dome and Distributor Valve.*
Shows the procedures to be followed in the disassembly of the dome and distributor valve of the Hamilton standard hydromatic propeller.
- 1-296 *Expansion and Contraction in Welding.*
Discusses causes and effects of expansion and contraction, and methods of reducing and counteracting them.

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FS Serial No.	Subject	Remarks
1-297	Maintenance of Arc Welding Machines. <i>Details preliminary inspection, cleaning, lubricating, and care of brushes and commutator in arc welding machines.</i>	
1-298	Fundamentals of Arc Welding—Part II. <i>Shows the making of an arc weld, and the factors determining its quality.</i>	
1-299	Hamilton Standard Hydromatic Propeller—Assembly and Adjustment of Hub and Blades. <i>Illustrates the procedures followed in assembling and adjusting the hub and blades of the Hamilton standard hydromatic propeller.</i>	
1-300	Air Forces Supply System—Warehouse Section: Handling Inflammable Property. <i>Describes the warehouse storage and handling of inflammable items, including procedures for maintaining and issuing stocks of aviation gasoline and oils.</i>	
1-301	Self-Sealing Fuel Tanks. <i>Describes the construction, inspection, removal, and installation, maintenance, and storage of self-sealing fuel tanks.</i>	
1-302	Structural Failures in Airplanes. <i>Discusses causes of structural failures of all-metal combat type aircraft.</i>	
1-303	Martin Power-Operated Gun Turret—Removal, Installation, and Harmonization. <i>Shows procedures for removal, installation, harmonization of sight and guns, and adjustment of sight.</i>	
1-304	Glider Insignia and Code Markings.	

Illustrates method of layout and application of glider insignia, code markings, and color code.

1-305

Ignition Timing the R-2800 Engine.

Covers the procedure used in setting crankshaft, distributor rotor and magnetos in timing the ignition system of the R-2800 engine.

1-306

Ignition Timing the R-2600 Engine.

Covers the procedure used in setting the crankshaft, distributor rotor, and magnetos in timing the ignition system of the R-2600 engine.

1-307

Sperry Power Turret—Installation of Guns and Sights.

Describes the installation of guns and accessories, alignment of guns, installation and harmonization of the K-3 sight.

1-308

Preflight Inspection of the B-17F—Flexible Guns.

Describes the armorers' work in the preflight inspection of the major armament positions on the B-17F.

1-309

Inspection of Hydraulic Fluids.

Shows proper methods of selection, handling, storage, and issue of hydraulic fluids; includes explanation of basic operations and inspection of hydraulic systems.

1-310

Sperry K-3 Sight. Part I—Introduction and Operation.

Introduces the Sperry K-3 automatic computing sight; explains the operation of the variable speed unit, differential drives, vertical prediction unit, cosine eg unit, lateral prediction unit, the various stops and clutches, three-dimensional drives, and the adding differentials.

1-311

Sperry K-3 Sight. Part II—Operation, Cont'd.

Explains registering of deflection, the range finding system, electrical system, and operation of the Sperry K-3 automatic computing sight.

1-312

Sperry K-3 Sight. Part III—Adjustments.

Describes the adjustment of the Sperry K-3 sight: adjusting the light gate, adjusting speed of motor, adjusting the azimuth backlash spring, adjusting sight for parallax, and dial settings.

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FS Serial No.	Subject	Remarks
1-313	Sperry K-3 Sight. Part IV—Installation and Harmonization. <i>Gives detailed procedure for installing and harmonizing the Sperry K-3 automatic computing sight.</i>	
1-314	Sperry K-3 Sight. Part V—Disassembly, Inspection, and Maintenance. <i>Describes disassembly procedures for the Sperry K-3 sight, maintenance involved in 50-hour inspection and in making minor replacements.</i>	
1-315	Aeroproducts Propeller. Part I—Disassembly of Regulator. <i>Shows the disassembly of model A6325-C1 regulator.</i>	
1-316	Aeroproducts Propeller. Part II—Disassembly of Regulator Subassemblies. <i>Shows disassembly of regular model A6325-C1 subassemblies.</i>	
1-317	Aeroproducts Propeller. Part III—Disassembly of Hub and Blades. <i>Shows the detailed disassembly of hub and blades.</i>	
1-318	Air Forces Supply System—The Subdepot Inventory Section. <i>Shows use of Inventory Record card, Form No. 101-A, and explains procedures to be followed in taking a physical inventory of the subdepot.</i>	
1-319	Aircraft Tubing—Installation, Color Identification, and Line Tracing. <i>Presents the purpose, fitting, construction, installation, color identification, and line tracing of aircraft tubing.</i>	
1-320	Maintenance of the CG-4A Cargo Glider—Daily Inspection. <i>Describes the various checks made in the daily inspection of the CG-4A Cargo glider: interior, exterior and operating inspections.</i>	

- 1-321 Airplane Cockpit Instruments and Controls—The BT-13A Basic Trainer. Shows name, function, and location of cockpit instruments in the BT-13A basic trainer.
- 1-322 Aerial Navigation—Interpretation of a Single "LOP." Defines the use of the single line of position in aerial navigation.
- 1-323 Glider Loading and Unloading of a Jeep. Presents directions and safety precautions for loading and unloading of the Jeep ($\frac{1}{4}$ -ton truck 4x4) in the CG-4A cargo glider.
- 1-324 Aerial Navigation—Driftmeters. Describes the function and operation of the driftmeter in aerial navigation.
- 1-325 Aerial Navigation—Aerial Sextants. Describes the principle of the aerial sextant; explains the operation of the model A-11 sextant and the link bubble sextant model A-12.
- 1-326 Sperry Power Turret—General Operation. Gives detailed explanation of the operation of the Sperry power turret (upper local):
- 1-327 Bomb Bay Fuel Tanks—Installation and Removal on the B-25. Presents the installation and removal of the bomb bay fuel tank on the B-25 series airplanes.
- 1-328 Radio Frequency Oscillators. Part I—The Hartley Oscillator. Presents the fundamental theory of radio frequency oscillators and the operation of the Hartley oscillator.
- 1-329 Radio Frequency Oscillators. Part II—Electron-Coupled and Crystal Oscillators. Presents the operation of the electron-coupled and crystal oscillators, and the applications of radio frequency oscillators.
- 1-330 Pre-Flight Inspection of the Mustang (A-36 and P-51), The Radio Mechanic. Describes location of standard radio equipment on the Mustang (A-36 and P-51) airplane, and shows procedure for preflight inspection of this equipment.

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FS Serial No.	Subject	Remarks
1-331	Pre-Flight Inspection of the Thunderbolt (P-47), The Radio Mechanic. <i>Describes the location of standard radio equipment on the Thunderbolt (P-47) airplane, and shows procedure for preflight inspection of this equipment.</i>	
1-332	Preflight Inspection of the Marauder (B-26B), The Radio Mechanic. Part I. <i>Covers location of radio equipment, inspection of the antennas, and checks of radio equipment on the pilot's and co-pilot's compartment.</i>	
1-333	Preflight Inspection of the Marauder (B-26B), The Radio Mechanic. Part II. <i>Covers the inspection of radio equipment at the following position: radio operator, first bomb bay, second bomb bay, turret gunner, cameraman, and tail gunner.</i>	
1-334	Preflight Inspection of the Marauder (B-26B), The Radio Mechanic. Part III. <i>Covers the 522-A installation, and presents location inspection of all components.</i>	
1-335	Telephone Central Office Set TC-4, Operation. <i>Describes the line connections to the TC-4 set, and the operating procedure for this set.</i>	
1-336	Meissner Receiver Kit, Testing and Mounting the Parts. <i>Describes the method used in mounting and testing parts of the Meissner A-C-D-C superheterodyne receiver kit, model 10-1191.</i>	
1-337	Signal Lamp C-3A. <i>Presents general description and operation procedure for the C-3A signal lamp as used in aircraft for visual identification and communication.</i>	
1-338	Safety Rules and Policies. <i>Shows the necessity for safety rules and policies applicable to all personnel engaged in shop, hangar, and line work.</i>	

- 1-339 Squadron Supply—Requisitioning of Organizational Equipment and Supplies. *Explains forms and procedures used in requisitioning Tables of Equipment property, Table of Allowances property, expendable property, and replacement of organizational equipment.*
- 1-340 Airplane Mechanics' Hand Tools—Adjusting Assembling Tools—Part I. *Presents the proper identification and use of wrenches; demonstrates their care and safety precautions. (See also FS 1-198.)*
- 1-341 Parachutes—Repair, Testing, and Overhaul. *Points out those parts of a parachute which may require repair; illustrates drop-testing; and designates those parts which must be replaced when defects appear.*
- 1-342 Aircraft Fuel Systems—Part III. *Describes basic principles of pressure fuel systems on two-engine aircraft.*
- 1-343 Preflight Inspection of the P-51—The Crew Chief. *Describes major duties of the crew chief in making the preflight inspection of the P-51 airplane.*
- 1-344 Type D-1 Ground Heater—Part I—Operation. *Describes the type D-1 ground heater (Stewart-Warner model 782-Z-1)—its construction, uses, and operation.*
- 1-345 Type D-1 Ground Heater. Part II—Maintenance and Service. *Describes inspection and field maintenance, trouble-shooting, and preparation for storage for the type D-1 ground heater (Stewart-Warner model 782-Z-1).*
- 1-346 Hand-Operated Heater (Stewart-Warner 796-A). Part I—Operation. *Presents the specifications, principles of operation, uses, and operational procedures for the Stewart-Warner model 796-A handcrank heater.*
- 1-347 Hand-Operated Heater (Stewart-Warner 796-A). Part II—Disassembly, Service, and Reassembly. *Presents the procedures followed in the disassembly, cleaning, and reassembly of the Stewart-Warner model 796-A hand crank-heater.*

16. FILM STRIPS

FS Serial No.	Subject	Remarks
1-348	Teletype Equipment: Mechanical Forces Used in the Six Functions. Part IV—Unshift-On-Space.	
1-349	<i>Explains the mechanical action of the upshift-on-space function of the teletype page printer.</i> Milling Machines—General—Part I.	
1-350	<i>Describes classes, types, and uses of milling machines.</i> Refueling and Servicing B-25 and B-26 Airplanes.	
1-351	<i>Explains precautions and procedures observed in refueling and servicing B-25 and B-26 series airplanes.</i> Type D-1 Ground Heater. Part III—Overhaul.	
1-352	<i>Describes procedures for overhauling engine, carburetor, and heating units of the Stewart-Warner type D-1 ground heater.</i> Type D-1 Ground Heater. Part IV—Modifications to be Incorporated During 1943 Summer Overhaul.	
1-353	<i>Describes the purpose and methods of making certain modifications to the type D-1 Stewart-Warner ground heater during its summer overhaul.</i> C-3 Camera. Part I—Setting Up For Use on a Tripod.	
1-354	<i>Shows the loading of holders, going to location, setting up the tripod correctly, placing the camera on the tripod head, opening the camera, and getting set to photograph the subject.</i> C-3 Camera. Part II—Operation On a Tripod.	
	<i>Describes the operation of the C-3 camera on a standard crown tripod head: framing the picture, focusing, setting diaphragm stop, exposing with extended bellows, and using a wide-angle lens.</i>	

- 1-355 **C-3 Camera. Part III—Hand-Held Operation.**
Shows various methods of composing the picture and focusing, in the hand-held operation of the C-3 camera; also, use of the focal-Plane Shutter.
- 1-356 **C-3 Camera. Part IV—Synchronized Flash Equipment.**
Shows assembly and operation of synchronized flash equipment for the C-3 camera.
- 1-357 **Aircraft Fuel Pumps.**
Explains the construction, operation, maintenance, and inspection of all types of aircraft fuel pumps.
- 1-358 **Heating and Ventilating Systems.**
Presents the general construction and operation of four types of aircraft heating systems: steam, glycol hot air, exhaust manifold, and gasoline-burning.
- 1-360 **Type F-1 Utility Heater. Part I—Uses and Operational Procedure.**
Describes the Herman-Nelson self-powered type F-1 self-powered utility heater; typical uses, operation of engine, and operation of burner.
- 1-361 **Type F-1 Utility Heater. Part II—Maintenance and Test Procedure.**
Presents maintenance of engine and heater, and test procedures for the type F-1 self-powered utility heater.
- 1-362 **DC Motors in Aircraft Radio.**
Describes the theory, construction, and application of D-C motors as used in radio power equipment.
- 1-363 **Dynamotors in Aircraft Radio.**
Presents the construction, testing, and uses of aircraft radio dynamotors.
- 1-364 **Radio Frequency Power Amplifiers.**
Presents the operation, neutralization, and tuning of r.f. power amplifiers, and their use as frequency multipliers.
- 1-365 **Preflight Inspection of the A-24—The Radio Mechanic.**
Describes the location of standard radio equipment on the A-24 (Dauntless) airplane and shows procedure for its preflight inspection.

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FS Serial No.	Subject	Remarks
1-366	The Carbon Microphone. <i>Presents the theory and operation of the carbon microphone.</i>	
1-367	Meissner Receiver Kit—Wiring and Aligning. <i>Describes the wiring and aligning of the Meissner receiver kit, model 10-1191.</i>	
1-368	Retracting Mechanisms of the B-25 and B-26 Series Airplanes. <i>Presents structural reinforcements, landing struts, bracing, and operation of retracting and locking mechanism of the B-25 and B-26 series airplanes.</i>	
1-369	Holley Automatic Carburetors—Part II. <i>Shows installation, inspection, storage, and maintenance of the Holley automatic 1875 and 1685 downdraft carburetors, models H and HA.</i>	
1-370	Generators and Rotary Inverters in B-25 and B-26 Series Airplanes. <i>Describes the principles of operation, use, and location of generators and inverters in the B-25 and B-26 series airplanes.</i>	
1-371	Sperry Power Turret—Installation and Inspection. <i>Presents procedures for installing the Sperry upper local power turret, as well as showing the various inspections—preflight, post-flight, and 50-hour.</i>	
1-372	Squadron Supply—Certificate of Expenditure (Ammunition). <i>Explains procedure for drawing small-arms ammunition for range practice, and preparing Certificate of Expenditure for ammunition used.</i>	
1-373	SYKO. <i>Explains the SYKO cipher device, and demonstrates the procedure for encoding and decoding messages with it.</i>	

- 1-374 Caribbean Air Force Weather Code.
Presents an explanation of the CAF weather code and its use in handling confidential weather reports.
- 1-375 Preflight Inspection of the B-17F—The Radio Mechanic—Part I.
Describes the location of standard radio equipment on the Flying Fortress (B-17F) airplane, and shows procedure for preflight inspection of this equipment.
- 1-376 Preflight Inspection of the B-17F—The Radio Mechanic—Part II.
Covers inspection of radio equipment at the following points: bombardier, navigator, forward gunner, radio operator, radio crew, waist gunners, and tail gunners; describes procedure for concluding the preflight inspection.
- 1-377 Airplane Cockpit Instruments and Controls—Primary Trainer.
Shows the name, function, and location of the cockpit instruments in the PT (primary trainer).
- 1-378 Airplane Cockpit Instruments and Controls—Advanced Single-Engine Trainer.
Shows name, function, and location of cockpit instruments in the AT-6 (advance single-engine trainer).
- 1-379 Classification of Photographic Lenses.
Designed to provide a summary of the principle types of photographic lenses employed by the Army Air Forces.
- 1-380 Glider Woodworking Tools—Hand Tools.
Presents the classification, nomenclature, care, use, and storage of woodworking hand tools.
- 1-381 Induction Systems and Gear-Driven Superchargers on R-2600 and R-2800 Engines.
Explains general induction principles and practices as applied to aircraft engines; function and operation of each unit of the induction systems in B-25 and B-26 airplanes; troubles in the systems; construction and operation of supercharger clutches, and clutch troubles.
- 1-382 Preflight Inspection on B-25 and B-26 Induction, Fuel and Oil Systems.
Presents the inspections of the fuel, oil, and induction systems of the B-25 and B-26 series airplanes,

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FS Serial No.	Subject	Remarks
1-383	Take-Offs and Landings in Primary Training—Take-Offs. <i>Illustrates rules and precautions to be followed in take-offs; designed for the primary flying student.</i>	
1-384	Take-Offs and Landings in Primary Training—Landings. <i>Describes rules and precautions to be followed in landings; common errors and their corrections; designed for the primary flying student.</i>	
1-385	25-Hour Inspection of BT Engines. <i>Describes the inspection to be made on the BT-13, BT-13A, and BT-15 new or overhauled engines between 20 and 30 hours after installation.</i>	
1-386	Nomenclature of the Airplane. <i>Outlines the basic parts of an airplane, as they apply to the study of aircraft recognition.</i>	
1-387	Preflight Inspection of the B-17F—The Lower Turret. <i>Describes the preflight visual and operational checks to be made on the B-17F Sperry lower ball turret—turret, K-4 sight, guns, ammunition containers, and oxygen system.</i>	
1-388	Valve Clearance Adjustment on R-2600 and R-2800 Engines. <i>Presents procedure and purpose of valve clearance adjustment on R-2600 and R-2800 engines, precautions, checks, and tools required.</i>	
1-389	Jacking and Hoisting B-25 and B-26 Series Airplanes. <i>Presents location of jacking points, procedures in raising airplanes with jacks, use of shoring and cribbing, precautions concerning loading and balance during hoisting, and use of tail stand when raising airplanes.</i>	

- 1-390 Flexible Machine Gun Mounts and Adapters.
Illustrates the installation and operation of the Bell E-11 and Edgewater E-10 flexible machine gun mounts.
- 1-391 Bourdon Tube Instruments. Part I—Operation.
Describes the principles of operation of Bourdon tube instruments, and the mechanics of Bourdon gages used in aircraft.
- 1-392 Preflight Inspection of the A-36—The Crew Chief.
Describes the crew chief's duties in the preflight inspection of the A-36 airplane.
- 1-393 Aircraft Fuel Systems. Part II—Pressure Systems for Diaphragm Carburetors.
Discusses vapor lock, its causes and prevention; auxiliary fuel pumps; turbosupercharger, and combat safeguards.
- 1-394 Gas Welding Technique.
Presents preliminary procedure, gas welding with and without a filler rod, and forehand and backhand gas welding.
- 1-395 Aircraft Fuel Systems. Part I—Gravity Systems and Pressure Systems for Float Type Carburetors.
Presents function and operation of gravity systems and pressure systems for float type carburetors.
- 1-396 Bourdon Tube Instruments. Part II—Inspection, Maintenance and Disassembly.
Presents service inspection, bench testing equipment, tests, disassembly, and general inspection and maintenance for Bourdon tube instruments.
- 1-397 Bourdon Tube Instruments. Part III—Adjustment and Assembly.
Presents ranging Bourdon tube gages, cause of curve errors, adjustment of Bourdon tube pressure gages, and assembly of Bourdon tube gages.
- 1-398 Inspection and Maintenance of B-26 Hydraulic Systems. Part I—Power Pressure Control and Brake Sections.
Describes the inspection and maintenance of power, pressure control, and brake sections of the hydraulic systems of the B-26 B and C series airplanes.

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FS Serial No.	Subject	Remarks
1-399	Inspection and Maintenance of B-26 Hydraulic Systems. Part IV—Emergency Systems. <i>Presents inspection, maintenance, and trouble-shooting on the hydraulic, pneumatic, and mechanical emergency systems on the B-26 and C series airplanes.</i>	
1-400	Modulation. <i>Outlines the principles of modulation and the development forms in aircraft radio.</i>	
1-401	Materials Used in Fabric Coverings. <i>Illustrates types and identification of materials used in fabric coverings of gliders.</i>	
1-402	Adjustments of B-25 and B-26 Induction, Fuel and Oil Systems control Linkages. <i>Discusses the control linkages of induction, fuel, and oil systems on B-25 and B-26 airplanes—their locations, adjustments, and inspection.</i>	
1-403	Oil Systems on B-25 Series Airplanes. <i>Presents location, operation, and maintenance of oil system units on B-25 series airplanes.</i>	
1-404	Teletype Equipment: Mechanical Forces Used in the Six Functions. Part V—Signal Bell. <i>Presents the mechanical action of the signal bell function of the model 15 teletype page printer.</i>	
1-405	Electric Resistance Welding. <i>Illustrates types of resistance welding, auxiliary equipment used in spot welding, factors determining quality of weld, and maintenance of resistance welding machines.</i>	
1-406	Welding Joints. <i>Shows methods employed for the various types of welded joints—butt, lap, tee, edge, and corner.</i>	

- 1-407 The K-21 Aircraft Camera. Part I—Installation. *Describes installation of the K-21 aircraft camera in B-17 and B-24, using A-17 camera mount; illustrates installation of heater unit and filter, and shows how to make the necessary power connections.*
- 1-408 The K-21 Aircraft Camera. Part 2—Loading and Operation. *Explains loading of the K-21 aircraft camera; also shows operation of the various controls.*
- 1-409 Preflight Inspection of the B-17F—Upper Local Turret. *Illustrates the visual and operational check to be made on the upper local turret during the preflight inspection of the B-17F.*
- 1-410 Teletype Equipment: Mechanical Forces Used in the Six Functions. Part VI—Carriage Return. *Presents the mechanical action of the carriage return function of the model 15 teletype page printer.*
- 1-411 Aerial Navigation—Aerial Sextant Type A-10. *Presents the description, adjustment, and use of the type A-10 aerial sextant.*
- 1-412 Aerial Navigation—Aerial Sextant Type A-7. *Describes the function and use of the type A-7 aerial sextant.*
- 1-413 Aerial Fixed Gunnery: Analysis of the Sighting Problem. Part 1—Range Estimation and Sight Alignment. *Illustrates range estimation and sight alignment in aerial fixed gunnery.*
- 1-414 Camouflage in the Field. *An elementary discussion of camouflage—its purpose and methods.*
- 1-415 The K-24 Aircraft Camera. Part 1—Shutter Installation and Loading of Magazine. *Illustrates the procedures for installing shutter curtains and loading film magazine on the K-24 aircraft camera.*
- 1-416 Photographic Emulsions. *Discusses the various classifications of photographic emulsions and their major characteristics.*

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FS Serial No.	Subject	Remarks
1-417	Sperry Lower Ball Turret—Functioning of Parts. <i>Explains the functioning of principal parts of the Sperry lower ball turret, including mechanical action, electrical circuits, oxygen system, and fire cut-off unit.</i>	
1-418	Introduction to Airplane Structures. <i>Illustrates types of U. S. Army airplanes and their designations, principal structural units, and insignia and markings. (Revision of FS 1-10.)</i>	
1-419	Slide Rule Operation and Application. Part 1—Multiplication and Division. <i>Explains the basic operation of the slide rule, and how it is used for solving multiplication and division problems.</i>	
1-420	Exact Camera Gun Assessor. <i>Describes method of using the exact camera gun assessor in determination of results obtained in G.S.A.P. camera guns mounted in fixed gun aircraft. Includes setting up the assessor, zero shadow setting, calculation of model shadow range, procedure for assessing film, determination of allowance for deflection, and use of the assessor with combat film.</i>	
1-421	Aerial Navigation—Operation of the Astro-Compass. <i>Describes mounting of the astro-compass in airplanes, general operation, aligning the astro-compass standard, and use in determination of deviation correction by use of air almanac.</i>	
1-422	Aerial Navigation—Secondary Uses of the Astro-Compass. <i>Describes the use of the astro-compass to determine deviation correction using the astro-graph, to steer a required heading, and to identify a star.</i>	
1-423	The E-6B Computer—Solution of Wind Triangle.	

- 1-424 *Presents the vector face of the E-6B computer, rules for using the computer, and solution of typical problems.*
- 1-425 *The E-6B Computer—Determination of Wind. Method of determining wind and ground speed by double drift method and by drift on two headings.*
- 1-426 *Traffic Flying in Primary Training—Flying a Normal Pattern. Illustrates the traffic for primary training. Includes leaving traffic, entering traffic, locating base leg, and locating key position.*
- 1-427 *Aerial Fixed Gunnery: Analysis of Sighting Problem: Part 2—Angular Deflection Allowance. Describes the effect of range, bullet velocity, and target speed on deflection angle; using mph value of the ring sight; effect of angular deflection allowance.*
- 1-428 *Removing Old Covers and Preparation of Glider Structures. Presents the method of removing old fabric covers and procedures for preparing the glider structure for recovering.*
- 1-429 *Parallel Operation of Generator Systems on B-25 and B-26 Series Airplanes. Presents principles of paralleling generator systems on twin-engine aircraft, with particular reference to B-25 and B-26 airplanes.*
- 1-430 *Errors in Bombing. Part 1—Synchronous Bombing. Explains errors and their corrections in disk setting for synchronous bombing—settings for range, course, trail or air speed, true vertical and various bubble errors.*
- 1-431 *Errors in Bombing. Part 2—Fixed-Angle Bombing. Points out and corrects certain errors in fixed-angle bombing; includes errors in altitude, speed, and trail setting.*
- 1-432 *The N-3A Gun Sight. Describes the function, operation, installation and alignment, adjustments, inspection, and maintenance of the N-3A fixed gun sight.*

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FS Serial No.	Subject	Remarks
1-432	Aerial Fixed Gunnery—The Gun Sight. <i>Presents a detailed discussion of types of gun sights, use of the ring sight in aerial gunnery, principles of the optical sight, and use of the N-3A fixed gun sight.</i>	
1-433	The K-24 Aircraft Camera. Part 2—Installation and Operation. <i>Illustrates procedure for attaching the film magazine, attaching heating and filter units, mounting camera in B-17 and B-24, and making the necessary connection to place the camera in operation.</i>	
1-434	The Atmosphere. <i>Designed to acquaint the student with the composition of the atmosphere and the distribution of the various elements with altitude. In color.</i>	
1-435	K-20 and K-25 Aerial Cameras. <i>Illustrates loading, operating, and unloading procedures for K-20 and K-25 aerial cameras.</i>	
1-436	Fuel Systems on the B-26 Series Airplane. <i>Presents the location, operation, and maintenance of fuel systems unit on the B-26B and C series airplanes.</i>	
1-437	Slide Rule Operation and Application. Part 2—Powers and Roots. <i>Illustrates the method of finding powers and roots of numbers by use of the slide rule.</i>	
1-438	Slide Rule Operation and Application. Part 3—Solving Special Basic Problems. <i>Shows methods of solving certain special basic problems by use of the slide rule. Includes problems involving fractional powers or exponents, and area and circumference of a circle.</i>	

- 1-439 Flexible Hose.
Presents the purpose, installation, and inspection of flexible rubber fuel and oil hose on aircraft.
- 1-440 The Sperry K-4 Sight.
Describes the structure, installation, and harmonization of the Sperry K-4 automatic computing sight. Points out ways in which it differs from the K-3 sight.
- 1-441 Operation of the Type B-5 Film Developer.
Gives detailed instruction for developing film in the type B-5 film developer.
- 1-442 Feathering Hydromatic Controllable Propellers on the B-24 Airplane.
Describes necessity for feathering the propeller, and the procedure for emergency feathering and for unfeathering on the B-24 airplane.
- 1-443 Transition Phase (Basic Training)—Part 1.
Designed to help familiarize the flying student with certain flying characteristics of the basic training airplane; includes taxiing, climbing turns, and leveling off. procedure.
- 1-444 Trouble-Shooting R-2600 and R-2800 Engines.
Presents the procedures followed in determining malfunctions of the various power plant systems of the R-2600 and R-2800 engines.
- 1-445 Air Traffic Rules.
Illustrates regulations which govern operation of Army Air Forces aircraft flying in the continental United States, with flying safety as the goal. Describes detailed flight procedures on a typical flight from New York City to Hendricks Field, Fla.
- 1-446 Aeroproducts Propeller. Part IV—Assembly and Adjustment of Regulator Sub-assemblies.
Describes the detailed procedures for assembly and adjustment of model A6328-C1 regulator subassemblies, including governor, pressure control valve and filter, oil pump and regulator gear and adapter ring.
- 1-447 Intervalometer B-3A—Disassembly and Reassembly.
Shows detailed maintenance procedures for disassembly and reassembly of the B-3A intervalometer used on aerial cameras.

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FS Serial No.	Subject	Remarks
1-448	Aircraft Engine Oil Pumps. <i>Presents the construction, location, and operation of aircraft engine oil pumps, using the B-25 and B-26 airplanes as examples.</i>	
1-449	Assembly Procedures on the R-2600 Engine. <i>Presents pre-oiling, cautions and procedures in assembling major sections and accessories of the R-2600 engine.</i>	
1-450	Assembly of Reconnaissance Strips. <i>Illustrates the detailed procedure for the assembly of photographic reconnaissance strips; includes straight line method of control, mounting with gum arabic, and other procedures for assembly and mounting.</i>	
1-451	Oil Temperature Regulators and Control Valves. <i>Describes types, locations, and operation of oil temperature regulators and control valves of the oil systems on B-25 and B-26 airplanes.</i>	
1-452	The B-17 Airplane—Replacing Starters. <i>Presents common causes of starter troubles, and proper method of replacing O-6 starters on the B-17 airplane.</i>	
1-453	Sperry Lower Ball Turret—General Operation and Installation. <i>Gives detailed explanation of procedures for operating the Sperry lower ball turret; also shows installation of ring gear and turret in B-17.</i>	
1-454	Types of Fuel Servicing Equipment. <i>Shows principal types of fuel servicing and transporting vehicles used by the Army Air Forces.</i>	

- 1-455 Staff Duties in Air Force Units.
Describes principal functions of group and squadron staff officers:
- 1-456 Administrative Orders for Air Force Units.
Explains the component parts of an administrative order.
- 1-457 Setting Up the SCR-634 in the Field.
Shows procedures for unpacking and setting up the SCR-634 unit in the field.
- 1-458 Elementary Electrical Trouble Shooting.
Presents the instruments and methods used in elementary electrical trouble shooting:
- 1-459 The B-17 Airplane—Inspection and Maintenance of the A-2 Life Raft.
Describes the inspection and maintenance of the A-2 life raft used on the B-17 airplane, including 6-month inspection, inflation test, and packing the life raft in the airplane.
- 1-460 The B-17 Airplane—Alfite Fire Extinguishing System.
Illustrates operation, maintenance, and inspection of the Alfite fire extinguishing system on the B-17 airplane.
- 1-461 Introduction to the Link Trainer.
Describes briefly the history of the Link Trainer; compares Link Trainer with an airplane; discusses the axes of the trainer and control of movement about axes; shows how the trainer is maneuvered.
- 1-462 The B-17 Airplane—Hydraulic Systems.
Presents the location, description, and maintenance of the B-17 hydraulic systems.
- 1-463 The B-17 Airplane—Functional Testing and Cleaning the Glycol System.
Presents the functional testing and cleaning of the glycol heating system used on the B-17 airplane.
- 1-464 Preflight Inspection of the B-24 Airplane—The Crew Chief.
Describes the following preflight checks on the B-24; before starting engines, during warm-up, and after engine warm-up:

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FS Serial No.	Subject	Remarks
1-465	Preflight Inspection of the B-25 Airplane—The Crew Chief. <i>Describes the following preflight checks on the B-25; before starting engines, during engine warm-up, and after engine warm-up.</i>	
1-466	The Five-Unit Code and Its Use in Teletype. <i>Presents the general principles of the five-unit permutation code and its use in teletype transmission.</i>	
1-467	Intervalometer B-3A—Cycle of Operation. <i>Describes in detail the cycle of operation of the type B-3A intervalometer used to operate aerial cameras.</i>	
1-468	The Clock System of Target Identification. <i>Designed to acquaint combat crews with the standardized clock system of designating the position of approaching aircraft.</i>	
1-469	Safety in Handling Firearms. Part I—Machine Guns and Submachine Guns. <i>Illustrates safety precautions for the handling of aircraft machine guns and Thompson submachine gun.</i>	
1-470	Safety in Handling Firearms. Part II—Automatic Pistol, Carbine and Shotgun. <i>Illustrates safety precautions for the handling of .45 caliber pistol, .30 caliber carbine, and the pump shotgun.</i>	
1-471	Preflight Inspection of 37-mm Cannon. <i>Illustrates detailed preflight inspection procedures for the 37-mm aircraft cannon.</i>	
1-472	Repair of Exhaust Manifolds. <i>Describes repair procedures for aircraft exhaust manifolds.</i>	

- 1-473 The Sperry Bombsight. Part I—Test Preliminary to Overhaul.
Describes tests to be made on the S-1 bombsight preliminary to overhaul under field maintenance conditions.
- 1-474 The Sperry Bombsight. Part II—Disassembly, Inspection and Maintenance.
Describes procedures for disassembly, inspection and maintenance of the S-1 bombsight under field conditions.
- 1-475 The Sperry Bombsight. Part III—Reassembly.
Describes procedures for the reassembly of the S-1 bombsight under field conditions.
- 1-476 The Sperry Bombsight. Part IV—Final Test and Calibration.
Describes procedures for final test and calibration of the S-1 bombsight under field conditions.
- 1-477 The Sperry Bombsight. Part V—Common Malfunctions.
Describes the common causes of malfunction of the S-1 bombsight, and corrections that can be made under field conditions.
- 1-478 Transition Phase (Basic Training)—Part II.
Designed for the basic training flying student; covers coordination exercises, medium turns, steep turns, gliding turns, and landings.
- 1-479 Fundamentals of Gas Welding.
Describes the gas welding flame and its uses; gas welding equipment; safety precautions.
- 1-480 Assembly Procedures on the R-2800 Engine.
Presents pre-oiling, cautions and procedures in assembly of some of the major sections and accessories of the R-2800 engine.
- 1-481 The B-17 Airplane—Generator Voltage Regulation.
Describes the proper procedure for paralleling B-17 aircraft generators.
- 1-482 25-Hour Inspection of the R-1820-97 Engine.
Presents steps in the 25-hour inspection of the R-1820 engine.
- 1-483 Disassembly Procedures on the R-2600 Engine.
Presents procedures for disassembling major sections of the R-2600 engine.

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FS Serial No.	Subject	Remarks
1-484	The B-17 Airplane—Inspection of Supercharger Type B-2. <i>Illustrates procedures for performing various inspections on type B-2 supercharger on B-17 airplane.</i>	
1-485	The B-17 Airplane—Oil System. <i>Presents the principles of operation on the B-17 oil system, and location and function of the various units in the system.</i>	
1-486	Operation of the Type C-1 Ground Camera. <i>Depicts procedure for setting up and operating the type C-1 Eastman ground camera.</i>	
1-487	Demonstration of Gyroscopic Principles. <i>Explains the gyroscopic principle as it applies to the aircraft instrument.</i>	
1-488	The B-17 Airplane—Fuel System. <i>Presents the location and function of the various fuel system units in the B-17 airplane.</i>	
1-489	Self-Synchronous Instruments—Autosyn Instruments. <i>Presents the installation, operations, and applications of autosyn self-synchronous aircraft instruments.</i>	
1-490	Self-Synchronous Instruments—Selsyn Instruments. <i>Explains the installation, operations, and application of aircraft selsyn self-synchronous instruments.</i>	
1-491	Squadron Supply—Determination of Responsibility for Damaged, Destroyed, and Lost Property.	

Explains general use, preparation, and distribution of the forms used in determination of responsibility for damaged, destroyed, and lost property.

1-492

The AF2-3 Intervalometer for Bombardment Missions.

Describes the construction, function, wiring diagrams, operation timing, and adjustment of the AF2-3 intervalometer used for release of bombs.

1-493

Preflight Inspection of the B-17—The Crew Chief.

Outlines duties of the crew chief in a typical preflight inspection of a B-17 airplane.

1-494

Lathes—Operation.

Describes the following operations of the lathe: speeds and feeds, spindle, carriage and cross slide, compound rest and tailstock.

1-495

Maintenance and Repair of Gas Welding Equipment.

Shows maintenance and repair procedures on single-stage regulators, two-stage regulators, torches, and hose connections.

1-496

Introduction to Gyro Instruments—The Vacuum System.

Presents the operation of the vacuum system used in gyro instruments.

1-497

Airplane Cockpit Instruments and Controls—Advanced Multi-Engineed.

Shows name, function, and location of the cockpit instruments in the AT-9 airplane.

1-498

Responsibilities of an Aircraft Commander.

Points out the responsibilities of an aircraft commander (heavy bomber); his responsibilities on the ground and in flight, with respect to the safety and efficiency of his crew; emphasizes the necessity for knowing the duties and capabilities of each member of the crew.

1-499

Engineering Section of an Air Service Group—Part I.

Outlines nature and function of component units of an air service group engineering section. (Sound record accompanies film strip.)

1-500

Starting and Stopping Procedures for the B-26 Series Airplane.

Details procedures for the pilot of the B-26 airplane; pilot's preflight inspection, starting engines, engine warm-up, and stopping.

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FS Serial No.	Subject	Remarks
1-501	Headphones and Loudspeakers. <i>Presents the theory and operation of the headphone and the electrodynamic loudspeaker.</i>	
1-502	Tube Tester Model 685. <i>Explains how to use the tube tester Weston model 685, type 2 of test set 1-56-A to check various types of tubes for short, opens and emission.</i>	
1-503	Preflight Inspection of the Lightning (P-38)—The Radio Mechanic. <i>Covers location and inspection of components of the SCR-522 and SCR-274N installation in P-38.</i>	
1-504	Assembling and Adjusting the Radiotelegraph Key. <i>Illustrates the assembling and adjusting of the radiotelegraph hand key.</i>	
1-505	Test Set IE-19-A. <i>Explains the steps in the use of test set IE-19-A in tuning the receiver and transmitter in command set SCR-522A.</i>	
1-506	Structure of Fixed Antennas on Army Aircraft. <i>Describes the structure, installation materials, and antenna ties of common fixed wire as used on Army aircraft.</i>	
1-507	Types of Fixed Antennas on Army Aircraft. <i>Describes the fixed wire, vertical mast, whip, and skin types of antennas used on various Army aircraft.</i>	
1-508	Loop and Trailing Wire Antennas. <i>Describes the loop antenna and trailing wire antenna as used on Army aircraft.</i>	

- 1-509 Preflight Inspection of the Airacobra (P-39)—The Radio Mechanic.
Shows location and preflight inspection of standard radio equipment on the Airacobra P-39.
- 1-510 Weather Reports.
Explains the items of a weather report.
- 1-511 Radio Transmitter BC-375E—Tuning Procedure.
Shows procedure for tuning and adjusting the radio transmitter of BC-375E on frequencies between 800 and 12,500 kilocycles.
- 1-512 Radio Transmitter BC-375E—Filament Voltage Adjustment.
Describes the procedure for setting the filament voltage adjustments for radio transmitter BC-375E
- 1-513 Radio Transmitter BC-375E—Calibration Reset.
Illustrates the procedure for adjusting the calibration of radio transmitter BC-375E with frequency motor BC-221C.
- 1-514 Radio Transmitter BC-375—Antenna Circuit.
Presents the antenna circuits and the transmitter antenna controls used in tuning the radio transmitter BC-375.
- 1-515 Radio Transmitter BC-375—Trouble Shooting.
Describes how the radio operator can trouble-shoot the voltage circuits of radio transmitter BC-375 during flight.
- 1-516 Radio Receiver BC-348-0—Functions of Controls.
Describes the changes which take place in the circuits of radio receiver BC-348-0 through use of the panel controls.
- 1-517 Radio Receiver BC-348-0—Operation.
Describes the adjusting and tuning procedure for radio receiver BC-348-0.
- 1-518 Cathode Ray Oscillograph.
Describes the theory and operation of the cathode ray oscillograph and its application in classroom demonstrations.

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FS Serial No.	Subject	Remarks
1-519	Trouble Shooting in Receivers. <i>Illustrates a procedure for trouble-shooting radio receiver, using the Meissner superheterodyne receiver as an example.</i>	
1-520	Dynamotor Unit PE-73C. <i>Presents the description, operation, and maintenance of the dynamotor unit PE-73C as used in radio transmitter BC-375E.</i>	
1-521	Lathes—Grinding and Aligning Centers. <i>Shows steps in truing and dressing a grinding wheel; steps in grinding lathe centers; methods of aligning lathe centers.</i>	
1-522	Test Set 1-76-E. <i>Explains how to tune and adjust the components of test set 1-76-E for use in tuning marker beacon receiver RC-43-A.</i>	
1-523	Radio Set SCR-522A—Tuning the Transmitter. <i>Describes the procedures for tuning radio transmitter BC-625A of radio set SCR-522A.</i>	
1-524	Radio Set SCR-274N—Preparation For Use. <i>Describes the preflight adjustments required on SCR-274N.</i>	
1-525	Radio Set SCR-274N—Components and Operation. <i>Describes the principal components and operational procedures for radio set SCR-274N.</i>	
1-526	Radio Set SCR-287A and Associated Equipment. <i>Presents the components of radio set SCR-287A and its associated equipment.</i>	

- 1-527 Link Circuit Relay Type 2-B and Radio Range Keyer Type 75-M.
Describes the components and operation of the link circuit relay and the radio range keyer.
- 1-528 Low Frequency Adcock Radio Range Equipment and Field Patterns.
Describes the components of the low frequency Adcock radio range equipment and the theoretical field patterns produced by this equipment.
- 1-529 Radio Range Course Control Elements.
Illustrates the components and construction of the interlocking, squeezing, rotating, and bending elements, and how each controls the radio range course.
- 1-530 Radio Transmitter BC-466H—RF and AF Sections.
Presents the circuits of radio and audio frequency sections of radio transmitter BC-466H used in a loop system radio range station.
- 1-531 Radio Transmitter BC-375—Interpolation and Extrapolation.
Shows how to determine correct dial settings for frequencies not listed on the calibration chart of radio transmitter BC-375.
- 1-532 Aeroproducts Propeller. Part V—Assembly and Adjustment of Regulator.
Shows detailed assembly of regulator for model A6325-GI.
- 1-533 Aeroproducts Propeller. Part VI—Assembly and Adjustment of Hub and Blades.
Shows detailed assembly and adjustment of hub and blades for model A6325-GI.
- 1-534 Introduction to Gyro Instruments—Principles of the Gyroscope.
Presents the principles of operation of gyro instruments used in aircraft.
- 1-535 Air Forces Supply System—Subdepot Inspection Section.
Outlines the duties of a subdepot inspection section; includes brief explanation of Form No. 60-B.
- 1-536 Starting, Ground-Operating and Stopping R-2600 and R-2800 Engines.
Presents the procedures before starting, actual starting, ground checking, and stopping R-2600 and R-2800 engines on B-25 and B-26 airplanes.

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FS Serial No.	Subject	Remarks
1-537	Inspection and Maintenance of B-26 Hydraulic Systems. Part II—Bomb Bay and Wing Flaps. <i>Presents the inspection, maintenance, and trouble shooting of bomb bay and wing flap hydraulic systems of the B-26B and C series airplanes.</i>	
1-538	Inspection and Maintenance of B-26 Hydraulic Systems. Part III—Cowl Flaps, Landing Gear, and Oil Cooler Shutter. <i>Presents inspection, maintenance, and trouble shooting of cowl flap, landing gear, and oil shutter sections of the hydraulic systems of B-26B and C series airplanes.</i>	
1-539	Aerial Navigation—Automatic Radio Compass. <i>Describes the automatic radio compass SCR-269-A, C, G; its components, and its operation.</i>	
1-540	Storage of Installed Airplane Engines—Short and Temporary Storage, and Preparation for Service. <i>Explains protections for installed airplane engines during short and temporary periods of idleness, and preparations for restoring them to service.</i>	
1-541	Storage of Installed Airplane Engines—Preparation for Extended Storage. <i>Shows procedures to be followed in preparing installed airplane engines for periods of extended storage.</i>	
1-542	Storage of Installed Airplane Engines—Preparation for Service After Extended Storage. <i>Presents procedures for preparing airplane engines for service following periods of extended storage.</i>	

AFPS Serial No.	Subject
1000	The Turbosupercharger—Disassembly. <i>Shows the disassembly procedure for the type B turbosupercharger, giving the step-by-step operations to be performed and the checks to be recorded during the process.</i>
1001	The Turbosupercharger—Rotor Balance. <i>Shows how rotor balance is obtained and checked; designed for the use of personnel in repair depots.</i>
1002	The Turbosupercharger—Details of Repair. <i>Shows how to service and repair the turbosupercharger with the equipment out of the plane.</i>
1003	The Turbosupercharger—Assembly. <i>Shows the step-by-step procedure in the assembly of the type B turbosupercharger.</i>
1004	The Turbosupercharger—Inspection and Maintenance. <i>Shows the operations to be performed in the interest of preventive maintenance on the type B turbosupercharger; shows daily and preflight operations to be performed while the equipment is in the plane.</i>
1005	Allison V-1710-33 Engine—Trouble Shooting.
1006	Allison V-1710-33 Engine—Changing in the P-40.
1007	Allison V-1710-33 Engine—Models E and F.
1008	Allison V-1710-33 Engine—Preparing For Installation in the P-39.
1009	Allison V-1710-33 Engine—Removing From the P-39.
1010	Allison V-1710-33 Engine—Unboxing and Preparing For Installation.
1011	Allison V-1710-33 Engine—Installing In the P-39.

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AFSS Serial No.	Subject
1012	Allison V-1710-33 Engine—Removal and Installation of Type-E Reduction Gear.
1013	Servicing the Ceramic Type Aviation Spark Plug.
1115	Field Maintenance of the Americal Bosch Aviation Magneto.
1016	The P-40—Pursuit Airplane.
1017	The P-40—Removing and Replacing Machine Guns.
1018	The P-40—Line Servicing and Preflight Inspection.
1019	The P-40—Landing Gear and Brake Systems.
1020	The P-40—Hydraulic System.
1021	The P-40—Electrical System.
1022	The P-40—Oil, Fuel, and Coolant Systems.
1025	Emergency Systems of the B-25 Airplane. <i>Describes operation and use of emergency lowering systems for main landing gear, nose gear and flaps, opening and closing bomb bay doors, applying brakes, fire extinguisher system, slowing of attachable parachutes; escape hatches to be used during flight, and those to be used on ground or in water; life raft operation; emergency hydraulic lowering gear system.</i>
1026	Holley Aircraft Carburetors.
1027	Holley Aircraft Carburetors—Installation, Operation, and Storage.
1028	Holley Carburetors—Overhaul of Models H and HA.

- 1029 Holley Test Stand—Description and Operation.
- 1030 Holley Test Stand—Tests on Assembled Carburetors.
- 1031 Holley Test Stand—Tests Made on Carburetor Parts:
- 1032 Holley Test Stand—Maintenance and Inspection.
- 1033 Holley Carburetors—Maintenance and Trouble-Shooting. All Models:
- 1034 Holley Carburetors—Model 700-H.
- 1035 Packard Rolls-Royce 1650-1 Engine—Servicing the Camshafts and Rockers Assemblies:
- 1036 Packard Rolls-Royce 1650-1 Engine—Setting the Engine Controls.
- 1037 Packard Rolls-Royce 1650-1 Engine—Basic Construction and Operation.
- 1038 Packard Rolls-Royce 1650-1 Engine—Timing the Valves.
- 1039 Packard Rolls-Royce 1650-1 Engine—Servicing the Lubrication System.
- 1040 Packard Rolls-Royce 1650-1 Engine—Inspecting and Servicing Magneto.
- 1041 Packard Rolls-Royce 1650-1 Engine—Servicing Induction Manifold and Flame Traps:
- 1042 Packard Rolls-Royce 1650-1 Engine—Servicing the Manifold Pressure Regulator.
- 1043 Packard Rolls-Royce 1650-1 Engine—Servicing the Wiring Harness.
- 1044 Packard Rolls-Royce 1650-1 Engine—Servicing the Coolant Pump.
- 1048 Disassembly of the Thompson Engine-Driven Fuel Pump.
- 1049 Inspection and Assembly of the Thompson Engine-Driven Fuel Pump:
- 1050 Disassembly of Thompson Fuel Booster Pump.
- 1051 Inspection and Assembly of the Thompson Fuel Booster Pump:
- 1052 Stromberg Injection Carburetor—Operating Procedures:

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AFSS Serial No.	Subject
1053	Stromberg Injection Carburetor—Field Maintenance Procedures.
1054	Stromberg Injection Carburetor—Construction and Principles of Operation.
1072	Pratt & Whitney R-1830-43 Engine—Disassembly Into Subassemblies, Pt. 1.
1073	Pratt & Whitney R-1830-43 Engine—Disassembly Into Subassemblies, Pt. 2.
1074	Pratt & Whitney R-1830-43 Engine—Physical Inspection.
1075	Pratt & Whitney R-1830-43 Engine—Magnaflux Inspection.
1076	Pratt & Whitney R-1830-43 Engine—Assembly of Front Section.
1077	Pratt & Whitney R-1830-43 Engine—Assembly of the Power Section.
1078	Pratt & Whitney R-1830-43 Engine—Assembly of Cylinders and Pistons:
1079	Pratt & Whitney R-1830-43 Engine—Assembly of Accessory Section.
1080	Pratt & Whitney R-1830-43 Engine—Final Assembly of Engine, Pt. 1.
1081	Pratt & Whitney R-1830-43 Engine—Final Assembly of Engine, Pt. 2.
1082	Holley Aircraft Carburetors—Overhaul of Model F Part I.
1083	Holley Aircraft Carburetors—Overhaul of Model F Part II.
1084	Balanced Oil Valve Adjustments.

Explains procedures to be followed in adjusting balanced oil valves, with specific instructions for adjusting spring and spool.

Explains procedures to be followed in adjusting balanced oil valves, with specific instructions for adjusting spring and spool.

- 1085 Propulsion of Gyro Rotors.
Gives a detailed explanation of the atmospheric principles which lie behind the operation of the gyro rotor; how rpm of the airplane engine governs rpm of vacuum pumps; emphasizes the necessity for keeping air filters clean.
- 1088 Teaching with Slidefilms.
Explains the instructional importance of the film strip; explains and illustrates the basic steps in successful teaching with film strips.
- 1089 Vivid Visualization—Mechanics of Slidefilm Projection.
Explains correct procedures for preparing room and equipment for projection of film strips; gives hints for the operator and instructor, and describes the operation and maintenance of the SVE Tri-Purpose film strip projector (type C-2).

F.S. Serial No.	Year released	Subject	Remarks
2-1	1940	Care of Animals. <i>Elementary hippology, feeding, grooming, features in preservation of horseflesh during service in the field, procedure in care after long periods of strenuous effort (marches, etc.), animal records, and details in connection with the diagnosis and treatment of ordinary ailments.</i>	Notes.
2-2	1942	Thompson Submachine Gun M1928A1, Caliber .45—Manual of Arms, Loading and Firing, Stoppages and Immediate Action. <i>Detailed discussion of the manual of arms, loading and firing, stoppages and immediate action.</i>	No notes.

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F.S. Serial No.	Year released	Subject	Remarks
2-3	1942	Thompson Submachine Gun M1928A1, Caliber .45—Mechanical Training—Part II. <i>Disassembly and assembly of groups; diagrams showing function of the weapon; spare parts and accessories.</i>	No notes.
2-7	0000	Horsemanship Instruction, Mounted—Suppling Exercises and Riding Hall Movements. <i>Suppling exercises pictured, and basic Riding Hall movements diagramed.</i>	Do.
2-8	1942	Horsemanship Instruction, Mounted—Jumping and Cross-Country Riding. <i>Adjustment of equipment for jumping, gymnastics of the jump, use of the half saddle position while mounted, cross-country riding.</i>	Do.
2-9	1942	Horsemanship Instruction—Shoeing Animals. <i>Examination for need of shoeing, normal shoeing, inspection of newly shod horse, corrective shoeing, horseshoeing equipment.</i>	Do.
2-10	1942	Thompson Submachine Gun M1928A1, Caliber .45—Mechanical Training—Part I. <i>Nomenclature, disassembly of groups, care and cleaning, reassembly, ammunition, method of transport.</i>	Do.
2-11	1942	Horsemanship Instruction—Mounting, Dismounting, and the Military Seat. <i>Procedure of mounting and dismounting. Diagram showing break-down of military seat.</i>	Do.
2-12	1942	Horsemanship—Blanket, Saddle, and Bridle.	Do.

2-13	1942	Correct way to saddle, unsaddle, bridle, unbridle, blanket, surcingle; purpose and correct adjustment of lip thong.	No notes.
2-14	1942	Horsemastership Instruction—Stable Management. <i>Cavalry unit in the following stable duties: construction of garrison and field picket lines; correct ventilation; process of correct grooming; use of blankets; and use of restraint when handling animals.</i>	No notes.
2-15	1942	Horsemastership Instruction—Feeding and Watering. <i>Digestive system of animals; rules for feeding, constituents, proportions, and preparation; rules for watering under average conditions.</i>	Do.
2-16	1942	Horsemanship Instruction, Mounted—Aids and Gaits. <i>Proper method of using aids to change the gait of the horse from any of the following beats: walk, slow trot, and gallop.</i>	Do.
2-17	1942	Organization of the Army of the United States. <i>Administrative establishment from commander-in-chief to combat division.</i>	Do.
2-18	1942	Browning Machine Gun, Caliber .30, M1919A4, Stoppages and Immediate Action, Technique of Fire. <i>Title is self-explanatory.</i>	Do.
2-19	1942	Cavalry Weapons, Browning Machine Gun, Caliber .30, M1919A4—Head Space Adjustment, Care, Cleaning, and Mechanical Functioning. <i>Procedure used in adjusting headspace; also description of care, cleaning, and mechanical functioning.</i>	Do.
2-20	1943	Cavalry Regiment, Horse. <i>Organization of the horse cavalry. Charis do not cover drill or combat formations.</i>	Do.
2-21	1943	Common Field Training Mistakes. <i>Good and bad field training practices performed by units under combat conditions on Louisiana maneuvers, summer, 1942.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
2-21	1943	Combat Methods of Small Units—The Squad Acting Alone. Covers issuance of warning order and preparatory procedure for going on reconnaissance with full field equipment; inspection, precautions and final orders, shoes, detailed action under tactical situations encountered on reconnaissance.	No notes.
2-22	1943	The Use of the Lensatic Compass. Both day and night use demonstrated by photographs, charts, and sketches of terrain. Stresses the necessity for remaining at a certain distance from all metallic objects when reading the compass.	Do.
2-23	1943	Simple Land Navigation for Combat Vehicles. Methods of obtaining knowledge of the direction and position of enemy forces, and how to determine the best course to follow from one point to another by the following methods: use of watch, compass and odometer; use of various landmarks; and position of the sun, moon, and certain stars.	Do.
2-24	1943	Arm and Hand Signals for Cavalry Drill. Title is self-explanatory.	Notes.
2-25	1943	Fire Adjustment of the Antitank Gun. Complete details of methods covering the sighting of the 37-mm antitank gun by means of the telescopic sight M 6 in directing fire against fixed and moving targets; adjusting fire; aiming with leads; and sight adjustment by means of bore sighting.	Do.
2-26	1943	Employment of Small Automatic Weapons. Combat employment of light and heavy caliber .30 machine guns; practical application of the fundamentals of machine-gun fire as taught in marksmanship training;	Do.

2-27	1943	characteristics and classes of machine-gun fire, fire distribution, overhead fire, and influence of terrain in the selection of machine-gun positions.	No notes.
2-28	1943	How to Tie the Sweeten Diamond and Phillips Cargo Hitches. <i>Procedure to be followed in tying the Sweeten diamond hitch, including lairing up the pack, slinging, and double tying the load.</i>	Do.
2-29	1943	Combat Orders. Part I—Command Procedure. <i>Defines and gives detailed explanation of the following steps in command procedure: the commander's estimate of the situation; the decision or mission; the plan and detailed instruction; the orders, signal communications, and supervision of execution.</i>	Do.
2-30	1943	Packing the McClellan Saddle. <i>Complete procedure followed in packing the McClellan saddle, including nomenclature, articles and equipment carried, where carried, and how packed.</i>	Do.
2-31	1943	Fitting and Adjusting the Phillips Pack Saddle. <i>Nomenclature of the Phillips pack saddle and method of fitting and adjusting. Explanation of sensitive parts of horse, correct placement of saddle, and methods of determining badly fitting areas; saddle adjustment tools; adjustment for injuries.</i>	Do.
2-32	1943	Movement Over Ground. <i>Correct procedure for individuals and for squads moving over the ground dismounted and mounted on horses.</i>	Notes
3-5	1941	The Platoon Acting Alone—The Rifle Platoon, Horse Cavalry. <i>Formation, conduct, and methods of operation of a horse platoon when it is on a mission by itself.</i>	No notes.
3-6	1941	Nomenclature and Air Flow System of the Standard Training Gas Mask. <i>Title is self-explanatory.</i>	Notes.
3-7	1941	Nomenclature and Parts of Miscellaneous Gas Masks. <i>Title is self-explanatory.</i>	Do.
	1941	Principles of Gasproofing for Shelters. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
3-8	1942	Nomenclature and Air Flow System, The Horse Gas Mask M4 and M5. <i>Title is self-explanatory.</i>	Notes.
3-9	1942	The Livens Projector M1. <i>Nomenclature and emplacement of Livens projector M1; preparation and weights of ammunition; wiring for firing; laying the projector; testing the wired circuit; packing and marking; accessories.</i>	Do:
3-11	1942	Hand Decontaminating Apparatus M1 and M2. <i>Description, storage, shipment, care, and safety precautions of the two types of hand decontaminating apparatus and their accessories.</i>	No notes.
3-13	1943	Irritant Candles, Tear Gas Pots and Smoke Pots. <i>Describes following functions of DM irritant gas candle M2, CN tear gas pot M1, and HC smoke pot M1: purpose, identification, fuel container, function, precautions in handling and packing.</i>	Do:
3-14	1942	The Portable Chemical Cylinder: <i>Nomenclature and assembly and instructions for wiring for electrical firing of the portable chemical cylinder; packing and shipping; cleaning, testing, and drying; and filling and charging of the cylinder.</i>	Notes:
3-15	1942	Protective Clothing—Types of Protective Clothing, Permeable and Impermeable. <i>Demonstration of chemically treated outer and underclothing, socks, and shoes; adjustment for maximum protection against gas; correct treatment for preservation and decontamination.</i>	Do:

3-16	1943	Firing Devices for Chemical Munitions. <i>Description, use, packing, and precautionary measures of handling of fuze and detonator No. 8; igniter fuze with fuze lights; Livens projector fuze, detonator No. 8 (electric blasting cap), and various types of squibs.</i>	Notes.
3-17	1943	The Impregnating Plant M1. <i>Diagrammatic description of the vital parts of an impregnating plant. Complete process is explained.</i>	Do:
3-18	1943	The 4.2-Inch Chemical Mortar. Part I—Nomenclature, Characteristics, and Accessories. <i>Title is self-explanatory.</i>	Do.
3-19	1943	The 4.2-Inch Chemical Mortar. Part II—Ammunition. <i>Description of chemical mortar shell, fuzes, ignition cartridge, and propellant power rings; fittings required for 4.2-inch shells in zone of interior and theater of operations; identification markings of chemical shell.</i>	Do:
3-21	1943	Portable Flame Thrower M1A1. Part I—Characteristics and Employment, Nomenclature and Firing. <i>Title is self-explanatory.</i>	Do:
3-22	1943	Portable Flame Thrower M1A1. Part II—Filling Pressure and Fuel Units and Preparation of Fire. <i>Title is self-explanatory.</i>	Do:
3-23	1943	Portable Flame Thrower M1A1. Part III—Care and Maintenance. <i>Title is self-explanatory.</i>	Do:
3-24	1943	Chemical Cloud Travel. <i>Effect of wind, air current, temperature, humidity, rain, mists, and terrain on gas clouds and smoke clouds.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
3-25	1943	Defense Against Chemical Attack—Part I. <i>Shows different forms of chemical attack and protection needed against each; methods of detecting gases; classification of chemical agents, and brief outline of what a soldier must know to keep from becoming a casualty.</i>	No notes.
3-26	1943	Defense Against Chemical Attack—Part II. <i>Describes and illustrates casualty agents.</i>	Notes.
4-1	1941	Characteristics of Naval Targets. <i>Title is self-explanatory.</i>	Do.
4-6	1941	Seacoast Artillery Weapons and Matériel—Part I. <i>Classification; construction; supports; carriages and mounts; recoil and counter-recoil; elevating and traversing mechanisms.</i>	No notes.
4-7	1941	Seacoast Artillery Weapons and Matériel—Part II. <i>Obduration; breechblocks; firing mechanisms; loading mechanisms.</i>	Do.
4-8	1941	Seacoast Artillery Weapons and Matériel—Part III. <i>Sights; guns, fixed and mobile; subcaliber guns and tubes; seacoast searchlights.</i>	Do.
4-13	1942	Antiaircraft Searchlight, Sperry M1941—Introduction, Nomenclature, Principal Electrical Circuits, The Antiaircraft Problem. <i>Title is self-explanatory.</i>	Do.
4-14	1942	Antiaircraft Searchlight, Sperry M1941—Ventilating System, Zero Reader, Follow-up System. <i>Parts and operation.</i>	Do.

4-15	1942	Fire Control and Position Finding, Antiaircraft Artillery. Part I—Elements of Data. <i>Title is self-explanatory.</i>	Notes.
4-16	1942	Antiaircraft Gun and Accessories. Part II—90-mm Antiaircraft Gun—Section I—Main Elements Except Breech Mechanism and Related Parts. <i>Proper positions in regard to placement of guns; description of parts and mechanism of the mount, trailer, and breech.</i>	Do.
4-17	1942	Fire Control and Position Finding, Antiaircraft Artillery. Part II—Elements of Data for Automatic Weapons. <i>Detailed description on elements of data for automatic weapons, and gunnery problems in regard to moving targets.</i>	Do.
4-18	1942	The 155-mm Gun Regiment. Part II—Matériel—Section I. <i>General characteristics of the gun, carriage, breech and accessory parts. Includes questions and answers.</i>	Do.
4-19	1942	The 155-mm Gun Regiment. Part II—Matériel—Section II. <i>Description of parts and matériel; mechanical assembly and disassembly for parts of carriage. Test on nomenclature.</i>	Do.
4-20	1942	The 155-mm Gun Regiment. Part II—Matériel—Section III. <i>Parts and functions of the telescope mount, gunners quadrant, panoramic telescope, limber, 37-mm subcaliber mount, and 37-mm tank cradle; projectiles, and methods of marking and pointing these projectiles.</i>	Do.
4-21	1942	Antiaircraft Artillery Guns and Accessories. Part I—3-inch Antiaircraft Gun M3, Mount M2A2. <i>Traveling position, brake action, emplacement and leveling of gun, equilibrators adjustment, elevation adjustment, and operation. Includes statistical data and a questionnaire.</i>	No notes.
4-22	1942	Antiaircraft Searchlight, Sperry M1941—Distant Electric Control System, Lamp and Lamp Control System. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
4-23	1942	Antiaircraft Searchlight, General Electric M1941—Introduction, Nomenclature, Principal Electric Circuits, The Antiaircraft Problem. <i>Title is self-explanatory.</i>	Notes.
4-24	1942	Fire Control and Position Finding for Antiaircraft Artillery: Part III—Position Finding and the Linear Speed Method Theory. <i>Title is self-explanatory.</i>	Do.
4-25	1942	Antiaircraft Searchlight, General Electric M1941—Ventilating System, Lamp and Lamp Control Box. <i>Title is self-explanatory.</i>	Do.
4-26	1942	Antiaircraft Artillery, Automatic Weapons—The Director M5. <i>Nomenclature; principles and theory of operation and limits of direction; generating unit and packing chest.</i>	No notes.
4-27	1942	Fire Control and Position Finding, Seacoast Artillery—Part I—Basic Principles. <i>Azimuth; knowledge of angles and their measurement; use of horizontal angles, and computation of horizontal distance, measured in yards.</i>	Notes.
4-28	1942	Identification of Merchant Ships. <i>Title is self-explanatory.</i>	Do.
4-29	1942	Antiaircraft Artillery Automatic Weapons, Browning Machine Gun, Cal. .50, M2 Water-Cooled and Mounts. <i>General views of the caliber .50 machine gun M2, its mounts and nomenclature; precautions to be taken, before, during, and after fire; immediate action in case of stoppage.</i>	No notes.

4-30	1943	Antiaircraft Searchlight Equipment. Part VI—General Electric, M1941—Distant Electric Control System and Data System. <i>Title is self-explanatory.</i>	Notes.
4-31	1942	Coast Artillery Ammunition. Part I—General Information. <i>Title is self-explanatory.</i>	Do.
4-32	1943	Rigging for Barrage Balloons. <i>Mooring, rigging, and handling lines, repair of rigging; splices; knots and their uses.</i>	No notes.
4-33	1943	Orientation. Part I—General. <i>General view of the orientation problem. The terms used in orientation course are explained and the equipment to be used in the solution of the problem is described.</i>	Do.
4-34	1943	Orientation. Part II—Instrument. <i>Purpose and use of equipment and instruments: miscellaneous, transit, steel tape, and verniers. Method of staking and plotting direction, and means for correction of instrumental errors.</i>	Do.
4-35	1943	Orientation. Part III—Methods of Designating Location. <i>Title is self-explanatory.</i>	Do.
4-36	1943	Orientation. Part IV—Methods of Determining Position. <i>Title is self-explanatory.</i>	Do.
4-37	1943	Orientation. Part V—Azimuth Determination, Approximate Methods, Elementary Astronomy. <i>Title is self-explanatory.</i>	Do.
4-38	1943	Orientation. Part VI—Stellar Observations in the Northern Hemisphere. <i>Title is self-explanatory.</i>	Do.
4-39	1943	Orientation. Part VII—Azimuth Determination by Solar Observation. <i>Title is self-explanatory.</i>	Do.
4-40	1943	Orientation. Part VIII—Stellar Observations, Southern Hemisphere. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
4-41	1943	Fire Control and Position Finding, Antiaircraft Artillery. Part VIII—Data Transmission Theory. <i>Title is self-explanatory.</i>	No notes
4-42	1943	Barrage Balloon—Lethal Devices for Low Altitude Barrage Balloons. <i>Operation of the Mark II and Mark VI links; disassembly of the Mark II and Mark VI; manner of attaching the Mark II and Mark VI links to the flying cables; correct procedure for rigging and packing the parachute.</i>	Do.
4-43	1943	Barrage Balloon, Very Low Altitude—Balloons Mark VI and MI. <i>Nomenclature, the bed, and handling.</i>	Do.
4-44	1943	Barrage Balloon, Lethal Devices. Part II—Lethal Devices for Very Low Altitude Barrage Balloons. <i>Detailed description of the lethal device, including the inertia link.</i>	Do.
4-45	1943	Coast Artillery Ammunition. Part II—Primers, Igniters, Fuses and Boosters—Section I—Primers and Igniters. <i>Title is self-explanatory.</i>	Do.
4-46	1943	The 37-mm Automatic Gun MIA2, on Carriage M3AI. <i>Nomenclature and function.</i>	Do.
4-47	1943	Coast Artillery Ammunition. Part II—Primers, Igniters, Fuses, and Boosters—Section II—Fuses and Boosters. <i>Title is self-explanatory.</i>	Notes.

4-48	1943	Coast Artillery Ammunition. Part III—Projectiles. <i>Title is self-explanatory.</i>	Notes.
4-49	1943	Coast Artillery Ammunition. Part IV—Marking, Packing, and Storage. <i>Title is self-explanatory.</i>	Do.
4-50	1943	Barrage Balloon—The Modified A-9 and A-11 Winches. <i>Operation, maintenance, and nomenclature of the A-9 and A-11 winches.</i>	No notes.
4-51	1943	Barrage Balloon Fabric Repair. <i>Nomenclature and methods employed in fabric repair.</i>	Do.
4-52	1943	The M5 Power Plant—Nomenclature and Maintenance. <i>Nomenclature of parts. Maintenance of the generator and motor; control panel, and accessory parts of the M5 power plant; routine service performed after 8 hours; 50 hours, and 200 hours of operation.</i>	Do.
4-53	1943	Railway Artillery. Part I—Track Construction. <i>Important factors to be considered in choosing sites and laying track for the sole use of railway artillery; different types of roads to be considered for the construction of railroad sidings, etc.</i>	Do.
4-54	1943	The 40-mm Automatic Gun, M1, Antiaircraft Artillery, Automatic Weapons. <i>Description and nomenclature.</i>	Do.
4-55	1943	Fire Control and Position Finding, Antiaircraft Artillery. Part V—The M4 and M7 Directors. <i>Presents exterior views of the M4 and M7 directors. Includes nomenclature, and covers the differences between the M4 and M7. Also includes a section to be used with an oral review or quiz by the instructor, and a 15-question true-or-false examination.</i>	Do.
4-56	1943	The M5 Power Plant, Trouble Shooting—Section I. <i>How to recognize and locate troubles in the fuel system and in the ignition system of the M5 power plant. May also be used as an aid in teaching trouble-shooting on any gasoline engine.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
4-57	1943	The M5 Power Plant, Trouble-Shooting—Section II. <i>Illustrates how to recognize and locate troubles in the cooling system and the lubrication system, and what to do in the event of hard starting. Can be used as an aid in teaching trouble-shooting on any gasoline engine.</i>	No notes.
4-58	1943	Fire Control and Position Finding. Part XV—Trial Fire. <i>Introduction and general presentation of the trial fire problem. Includes a 15-question true-or-false examination.</i>	Do.
4-59	1943	Barrage Balloon—The M1 Winch. <i>Describes the various parts of the winch which allow for the performing of the following duties: hauling in; paying out; controlling and storing of the balloon.</i>	Do.
4-60	1943	Fire Control and Position Finding. Part IV—Directors M5 and M6, Theory. <i>Explains theory of the angular travel method of prediction, and theory of operation of the M5 and M6 directors. Includes a 15-question true-or-false test.</i>	Do.
4-61	1943	Barrage Balloon, the Hydrogen Generator M1. <i>Capacity of the generator; chemicals used; how hydrogen is made; function of generator parts and the generating process; diagrams showing flow. Right, left, and rear view of all parts are also shown. Test questions included.</i>	Do.
4-62	1943	Barrage Balloon, The Cradle Bed. Part I—Bed Anchorages. <i>Nomenclature of anchorages, dimensions, and procedure in laying out the cradle bed.</i>	Do.
4-63	1943	Fire Control and Position Finding. Part II—Azimuth Instruments. <i>Function of azimuth instruments, use of the 1910A1 azimuth instrument and com-</i>	Do.

4-64	1943	<i>ponent parts of the telescope, base, and tripod, procedure of setting up the instrument, orientation and operation. Use of M1918. Review questions are included.</i>	No notes.
		Fire Control and Position Finding, Seacoast Artillery. Part III—The Horizontal Base.	
		<i>Elements of horizontal base system; explanation of base end stations and plotting board. Operation of system in obtaining track of target.</i>	
4-65	1943	Fire Control and Position Finding, Seacoast Artillery. Part IV—The Theory of the Vertical Base System.	Do.
		<i>Explains how range is obtained from measurement of the depression angle by a depression position finder; effect of and correction for tide, curvature, and refraction.</i>	
4-66	1943	Fire Control and Position Finding, Seacoast Artillery. Part V—Orientation, Range Adjustment, and Operation of the DPF M1907.	Do.
		<i>Title is self-explanatory.</i>	
4-67	1943	Direct Fire Control for Antiaircraft Guns. Part I—Theory of Leads.	Do.
		<i>Basic reasons why a lead must be used in firing at a moving ground or naval target. Defines the basic elements of antimechanized fire. Includes a 15-question true-or-false test.</i>	
4-68	1943	Barrage Balloon—The British Skid Mounted Mark IV Winch.	Do.
		<i>Operation of this portable winch for low altitude balloons; method of paying out, hauling in, and storing flying cable. Complete operation of the gipsy head used in the mechanical haul down; track of cable through the winch illustrated by drawings.</i>	
4-69	1943	Fire Control and Position Finding, Seacoast Artillery. Part VI—Orientation, Range Adjustment, and Operation of the Depression Position Finder, M1.	Do.
		<i>Title is self-explanatory.</i>	
4-70	1943	Fire Control and Position Finding, Seacoast Artillery. Part VII—How the Coincidence Range Finder Works.	Do.
		<i>Explains how the coincidence range finder determines range from instrument to target. Optical elements in instrument are illustrated by diagrams. Theory of C.R.F. range measurement summarized.</i>	

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F.S. Serial No.	Year released	Subject	Remarks
4-71	1943	Fire Control and Position Finding, Seacoast Artillery. Part VIII—The Nine-Foot Coincidence Range-Finder. <i>Description of instrument; orientation; halving and range adjustment by the datum point and infinity methods; operation.</i>	No notes.
4-72	1943	Fire Control and Position Finding, Seacoast Artillery. Part IX—The Fifteen-Foot Coincidence Range Finder Adjustment. <i>General description of instrument; halving adjustment; range adjustment by datum point, internal adjuster, and infinity methods.</i>	Do.
4-73	1943	Fire Control and Position Finding, Seacoast Artillery. Part X—The Fifteen-Foot Coincidence Range Finder—Operation. <i>Explains operation of the instrument, showing continuous and discontinuous methods of range finding.</i>	Do.
4-74	1943	Fire Control and Position Finding, Seacoast Artillery. Part XI—The 110 Plotting Board, M1915, Description and Operation. <i>Description of the board; explanation of use and different quadrants; orientation for a specific quadrant; operation of the board.</i>	Do.
4-75	1943	Fire Control and Position Finding, Seacoast Artillery. Part XII—The Cloke and M1 Plotting Boards, Description. <i>Nomenclature, use, and function of the various parts.</i>	Do.
4-76	1943	Fire Control and Position Finding, Seacoast Artillery. Part XIII—The Cloke and M1 Plotting Boards, Orientation I.	Do.

<i>Orienting of the Cloke and M1 plotting boards by means of the length and azimuth of the base line.</i>			
4-77	1943	Fire Control and Position Finding, Seacoast Artillery. Part XIV—The Cloke and M1 Plotting Boards, Orientation II. <i>Step by step demonstration of the datum point and equilateral triangle methods of orientation.</i>	No notes.
4-78	1943	Fire Control and Position Finding, Seacoast Artillery. Part XV—The Cloke and M1 Plotting Boards, Operation. <i>Detailed steps of operation of the Cloke plotting board, using the horizontal, the vertical, and self-contained base systems.</i>	Do.
4-79	1943	Fire Control and Position Finding, Seacoast Artillery. Part XVI—Theory of Prediction. <i>Covers the following elements of prediction: analyzing, and relating course and speed of target, dead time, and time of flight.</i>	Do.
4-80	1943	Fire Control and Position Finding, Seacoast Artillery. Part XVIII—Prediction Devices. <i>Employment of the prediction scale, the set-forward rule, and set-forward scales.</i>	Do.
4-81	1943	Fire Control and Position Finding, Seacoast Artillery. Part XVIII—Non-standard Ballistic Conditions. <i>Graphical demonstration of the effect of each of the nonstandard ballistic conditions. Range and lateral effects are shown separately.</i>	Do.
4-82	1943	Fire Control and Position Finding, Seacoast Artillery. Part XIX—Meteorological Message. <i>Description of meteorological message and how to decode it for use in artillery firing.</i>	Do.
4-83	1943	Fire Control and Position Finding, Seacoast Artillery. Part XX—Firing Tables. <i>Contents of firing tables and their use in determining corrected azimuth and range.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
4-84		Fire Control and Position Finding, Seacoast Artillery. Part XXI—Displacement Correction Devices. <i>Illustrates the operation of displacement correction devices.</i>	No notes.
4-85		Fire Control and Position Finding, Seacoast Artillery. Part XXII—Correction Board M1A1, Description and Operation. <i>Shows the operation of the range correction board.</i>	Do:
4-86	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXIII—The Percentage Corrector M1. <i>Describes percentage corrector M1 and operating procedure.</i>	Do.
4-87	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXIV—Wind Component Indicator. <i>Illustrates operation of the wind component indicator with separate sequences, for batteries oriented from south and for batteries oriented from north.</i>	Do.
4-88	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXV—The Deflection Board M1, Description. <i>Title is self-explanatory.</i>	Do.
4-89	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXVI—The Deflection Board M1, Operation for Case III Pointing. <i>Title is self-explanatory.</i>	Do.
4-90	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXVII—The Deflection Board M1, Operation for Case II Pointing. <i>Title is self-explanatory.</i>	Do.

4-91	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXVIII—Spotting Systems. <i>Describes axial, bilateral, and three-station spotting system and methods used in determining the effect of fire.</i>	No notes.
4-92	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXIX—Spotting Boards M3 and M7. <i>Covers the function and operation of the spotting boards M3 and M7.</i>	Do:
4-93	1943	Fire Control and Position Finding, Seacoast Artillery. Part XXX—Fire Adjustment, General Information. <i>Title is self-explanatory.</i>	Do.
4-109	1943	Barrage Balloon, The Cradle Bed. Part II—Sight Riggings. <i>Title is self-explanatory.</i>	Do:
4-110	1943	Direct Fire Control for Antiaircraft Guns. Part II—Description and Nomenclature. <i>Description and nomenclature of the elbow telescopes M24, M25, and M26 and the telescope mounts M26, M27, M28, and M29 used on 90-mm and 3-inch antiaircraft guns; adjustment and maintenance of the telescope and mount. Includes a 15-question true-or-false test.</i>	Do:
4-111	1943	Radio Set SCR-296A. Part I—Nomenclature and Function of Component Parts. <i>Title is self-explanatory.</i>	Do:
4-112	1943	Barrage Balloon. Part II—Methods of Mooring and Flying. <i>Details of operation and precautions required when encountering high winds, lighting, heavy rain, intense heat, or severe winter weather.</i>	Do:
4-113	1943	Direct Fire Sights for Antiaircraft Guns. Part III—Aiming and Orientation. <i>Method of aiming 3-inch and 90-mm guns using the elbow telescopes M24, M25, and M26. Orientation of the gun and sights. A 15-question true-or-false test included.</i>	Do:

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F.S. Serial No.	Year released	Subject	Remarks
4-114	1943	Radio Set SCR-582. Part I—Nomenclature and Function of the Component Parts. <i>Title is self-explanatory.</i>	No notes.
4-115	1943	Direct Fire Sights for Antiaircraft Guns. Part IV—Firing and Adjustment. <i>Service of the piece for the 3-inch and 90-mm guns when using direct fire sights. Fire adjustment using the elbow telescopes M24, M25, and M26. Includes an 8-question true-or-false test.</i>	Do.
4-116	1943	Radio Set SCR-582. Part II—Placing the Set in Operation. <i>Controls of radio set SCR-582 are illustrated and explained in the proper sequence. Questions and answers included.</i>	Do.
4-117	1943	Fire Control and Position Finding. Part X—Remote Control System M5. <i>Functioning of the M5 director in computing and transmitting firing data to the 37-mm and 40-mm antiaircraft gun. Elements of electrically controlled hydraulic power system illustrated in detail. Includes questions and answers.</i>	Do.
4-118	1943	Barrage Balloon, Methods of Mooring and Flying. Part I—Normal Operations. <i>Title is self-explanatory.</i>	Do.
4-119	1943	Radio Set SCR-296A: Part II—Operation. <i>Title is self-explanatory.</i>	Do.
4-120	1943	Radio Set SCR-296A. Part III—Operational Checks. <i>Title is self-explanatory.</i>	Do.

4-121	1943	Radio Set SCR-582. Part III—Operation. <i>Title is self-explanatory.</i>	No notes.
4-122	1943	Barrage Balloon, Methods of Mooring and Flying. Part III—Use of the Winch. <i>Title is self-explanatory.</i>	Do.
4-123	1943	Barrage Balloon, Methods of Mooring and Flying. Part IV—Special Operations. <i>Operations at water-borne siles, and procedure of transferring balloon from bed to boat, to barge, thence to point of attachment. Employment of VLA balloons to protect ships, amphibious operations, and large landing craft.</i>	Do.
4-124	1943	The Theory of Radar. <i>Title is self-explanatory.</i>	Do.
4-125	1943	Radio Set SCR-582. Part IV—Operational Checks. <i>Title is self-explanatory.</i>	Do.
4-126	1943	The Directors M9 and M10. Part I—Introduction. <i>Detailed explanation of functions and operation.</i>	Do.
4-127	1943	Fire Control and Position Finding. Part VI—M4 and M7 Directors, Basic Mechanisms. <i>Title is self-explanatory.</i>	Do.
4-128	1943	Fire Control and Position Finding, for Antiaircraft Artillery. Part IX—Remote Control System M2. <i>Nomenclature, description, and operation of M2 remote control system. Includes a 15-question true-or-false test.</i>	Do.
4-133	1943	Gun Data Computer M1. Part V—Operation Using the Vertical Base and Radar Systems of Position Finding. <i>Title is self-explanatory.</i>	Do.
4-134	1943	Gun Data Computer M1. Part III—Operating Features and Precautions. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
4-135	1943	The Gun Data Computer M1. Part II—General Operating Principles. <i>Title is self-explanatory.</i>	No notes.
4-136	1943	Direct Fire Control for Automatic Weapons. Part II—Theory of Leads. <i>Explains leads as a solution to the problem of hitting a moving target. Covers ground and naval targets. Includes 15-question true-or-false test.</i>	Do.
4-137	1943	Directors M9 and M10. Part II—Nomenclature. <i>Title is self-explanatory.</i>	Do.
4-138	1943	Direct Fire Control for Automatic Weapons. Part I—Theory of Leads. <i>Basic reasons why a lead must be used in firing at a moving target. Elements of data necessary to an understanding of on-carriage sighting systems.</i>	Do.
4-139	1943	Gun Data Computer M1. Part IV—Position Finding Using the Horizontal Base System. <i>Title is self-explanatory.</i>	Do.
4-140	1943	Direct Fire Control for Automatic Weapons. Part III—Tracer Observation. <i>Behavior of tracers and method of interpreting in terms of deviations about the target.</i>	Do.
4-141	1943	Antiaircraft Artillery Guns and Accessories—The 90-mm Gun on the M2 Mount. <i>Nomenclature and general description of the bogies and pedestal.</i>	Do.
4-142	1943	Direct Fire Control for Automatic Weapons. Part IV—Forward Area Sights for 40-mm Antiaircraft Guns. <i>Description, nomenclature, adjustments, care, preservation, and orientation.</i>	Do.
4-143	1943	The Directors M9 and M10. Part III—Adjustments. <i>Title is self-explanatory.</i>	Do.

4-144	1943	Antiaircraft Artillery Guns and Accessories. Part V—The 90-mm Antiaircraft Gun on the M2 Mount. <i>Nomenclature and general description of the gun assembly.</i>	No notes.
4-145	1943	Gun Data Computer M1. Part VI—Operation for Prediction and Fire Control. <i>Duties of operating personnel in determining the firing azimuth and elevation for the two-gun battery.</i>	Do.
4-146	1943	Gun Data Computer M1. Part VII—The Output Data Transmission System. <i>Description of output data transmission system, illustrating how to lay the guns and check the data receivers for synchronization.</i>	Do.
4-148	1943	Gun Data Computer M1. Part I—Base End Transmission System. <i>Operating the components of the data transmission system at the observation station and at the computer.</i>	Do.
4-149	1943	Antiaircraft Artillery Ammunition. Part I—General Handling, and Cal. .50 Ammunition. <i>Covers precautions that must be observed in handling all ammunition, and describes all caliber .50 ammunition in detail.</i>	Do.
4-150	1943	Direct Fire Control for Automatic Weapons. Part V—Forward Area Sights for 40-mm Antiaircraft Guns, Aiming at Aerial Targets. <i>Title is self-explanatory.</i>	Do.
4-151	1943	Antiaircraft Artillery Multiple Gun Mounts. Part I—The Twin Caliber .50 Machine Gun Mount M33, General Description. <i>Title is self-explanatory.</i>	Do.
4-152	1943	Antiaircraft Artillery Multiple Gun Mounts. Part II—The Twin Caliber .50 Machine Gun Mount M33, Assembly and Operation. <i>Installing the base, mount, shield, guns, solenoids, batteries, power charger, and sight of the twin caliber .50 machine gun mount M33 in the M3 or M5 half-track vehicle; adjustments, checks, and operation.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
4-153	1943	Antiaircraft Artillery Multiple Gun Mounts. Part III—The Multiple Cal. .50 Machine Gun Mount M45, General Description. <i>Title is self-explanatory.</i>	No notes.
4-155	1943	Antiaircraft Artillery Multiple Gun Mounts. Part V—The Combination aircraft Gun Mount M42. <i>Nomenclature and operation of the combination gun mount.</i>	Do.
4-157	1943	Harbor Defense Searchlights and Power Plants. Part V—Fixed Searchlights—Section I—Nomenclature and Function. <i>Title is self-explanatory.</i>	Do.
4-158	1943	Harbor Defense Searchlights and Power Plants. Part V—Fixed Seacoast Searchlights—Section II—Care and Maintenance. <i>Title is self-explanatory.</i>	Do.
4-159	1943	Antiaircraft Artillery Fire Control and Position Finding. Part VIIc—Prediction, M4 and M7 Directors—Section II—Prediction for Diving and Climbing Targets. <i>Title is self-explanatory.</i>	Do.
4-160	1943	Antiaircraft Artillery Guns and Accessories. Part IV—The 90-mm Antiaircraft Gun on the M2 Mount. <i>Covers nomenclature and general description of the leveling mechanism, top carriage, and cradle.</i>	Do.
4-161	1943	The Directors M9 and M10. Part IV—Tests. <i>Title is self-explanatory.</i>	Do.

4-162	1943	Harbor Defense Searchlights and Power Plants. Part III—Mobile Power Plants, Operation and Maintenance. <i>Title is self-explanatory.</i>	No notes:
4-163	1943	Harbor Defense Searchlights and Power Plants. Part IV—The 25-kw Power Plant, Care and Operation. <i>Title is self-explanatory.</i>	Do.
4-164	1943	Antiaircraft Artillery Fire Control and Position Finding. Part VIIa—M4 and M7 Directors, The Position Finding System. <i>Title is self-explanatory.</i>	Do.
4-165	1943	Erection of the Wayne Portable Steel Tower. <i>Title is self-explanatory.</i>	Do.
4-166	1943	Radio Optical Height Finder SCR-547. Part II—General Description and Nomenclature. <i>Title is self-explanatory.</i>	Do.
4-167	1943	Radio Optical Height Finder SCR-547. Part I—General Description and Nomenclature. <i>Title is self-explanatory.</i>	Do.
4-168	1943	Harbor Defense Searchlights and Power Plants. Part V—Fixed Seacoast Searchlights—Section III—Operation. <i>Title is self-explanatory.</i>	Do.
4-169	1943	The Medium Tractor M4. Part II—Preventive Maintenance. <i>Title is self-explanatory.</i>	Do.
4-170	1943	Orientation for Coast Artillery, Maps. Part II—Map Projections. <i>Title is self-explanatory.</i>	Do:
4-172	1943	Communications for Coast Artillery. Part I—The Use of the Telephone:	Do:

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F.S. Serial No.	Year released	Subject	Remarks
4-173	1943	Antiaircraft Artillery Fire Control and Position Finding. Part VIIId—Computation of Firing Data and Corrections, M4, M7 Directors. <i>Title is self-explanatory.</i>	No notes.
4-174	1943	Orientation for Coast Artillery. Part IV—Maps, Types and Features. <i>Title is self-explanatory.</i>	Do.
4-175	1943	Barrage Balloon Lethal Devices. Part III—Double Parachute Arming for VLA Balloons. <i>Covers nomenclature and functioning of flying cable assemblies, inertia links, double parachute cable cutter, and parachutes used with the double parachute arming scheme for VLA barrage balloons.</i>	Do.
4-176	1943	Radio Optical Height Finder SCR-547. Part IV—Indicator Presentation. <i>Covers the adjustments that must be made to form the correct "full sweep" and "precision sweep" pictures on the scope of the SCR-547 so that the unit will accurately measure slant range.</i>	Do.
4-177	1943	Orientation for Seacoast Artillery : Part IX—The Transit Traverse Field Notes.	Do.
4-178	1943	Direct Fire Control for Automatic Weapons. Part VII—M6 Sighting System. <i>Covers nomenclature, orientation, and employment of the M6 sighting system against air, ground, and naval targets.</i>	Do.
4-179	1943	Direct Fire Control for Automatic Weapons. Part VI—Forward Area Sights for 40-mm Antiaircraft Gun, Ground and Naval Targets. <i>Covers the employment of FAS for the 40-mm gun against ground and naval targets.</i>	Do.

4-180	1943	Antiaircraft Artillery, Guns and Accessories. Part VII—120-mm 4.7-inch Antiaircraft Gun on the M1 Mount; Leveling Mechanism; Top Carriage.	No notes:
4-181	1943	Medium Tractor M4. Part I—Operation.	Do:
4-188	1943	Communications for Coast Artillery. Part VIII—The Common Battery Telephone. <i>Covers the function and operation of the common battery telephone.</i>	Do.
4-189	1943	Communications for Coast Artillery. Part IX—Time Interval Apparatus and Signal Systems. <i>Title is self-explanatory.</i>	Do:
4-191	1943	Orientation for Seacoast Artillery. Part I—The Seacoast Artillery Orientation Problem. <i>Discusses the various positions that must be selected and oriented whenever a sea-coast battery is installed.</i>	Do:
4-192	1943	Orientation for Seacoast Artillery. Part V—Instruments, The Use of the Transit. <i>Covers a description of the transit and its operation in determining horizontal and vertical angles.</i>	Do.
4-193	1943	Orientation for Seacoast Artillery. Part VIII—The Transit Traverse, Running the Traverse. <i>Title is self-explanatory.</i>	Do.
4-194	1943	Radio Optical Height Finder SCR-547. Part III—Placing in Operation. <i>Shows how the adjustments are made in order to put the SCR-547 "on the air."</i>	Do.
4-195	1943	Orientation for Coast Artillery. Part VII—Transit Traverse, Organization and Duties of the Party. <i>Title is self-explanatory.</i>	Do.
5-14	1943	How to Fire a Furnace. <i>Operation of the hand-fired, bituminous coal furnace, method of starting and maintaining the fire and cleaning the furnace. Duties of the soldier in charge.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
5-15	1943	Mines: Part II—Hasty Mine Fields. <i>Illustrates the following methods laying hasty mine fields; employment of a one-squad group for daylight operation in favorable terrain, and a two-squad group for night operation in unfavorable terrain.</i>	No notes.
5-16	1943	Fixed Bridges. Part III—Repair and Expedients. <i>Methods of strengthening and repairing existing bridges sufficiently to carry military loads.</i>	Do.
5-17	1943	Engineer Equipment. Part I—The Motorized Air Compressor. <i>Principles of two-stage air compression; starting and stopping the compressor; attachment and principles of pneumatic tool operation, and general uses of the pneumatic tools which are a part of the motorized air compressor.</i>	Do.
5-22	1943	Rigging: Part I—Rope and Lashings. <i>Construction and care of rope, and methods used in making three commonly used lashings.</i>	Do.
5-23	1943	Mines. Part III—Antipersonnel Mines. <i>Standard antipersonnel mines and firing devices; methods of installation; antipersonnel mines M2 and M3 complete with combination firing device.</i>	Do.
5-24	1943	Mines. Part I—Antitank Mines. <i>Describes the antitank mine, stressing the precautions necessary in handling. Shows steps required in assembling and installing complete mine. Details of burial are discussed and importance of salvaging unused mine is briefly mentioned.</i>	Do.

5-25	1943	Mines. Part IV—Deliberate Mine Fields. <i>Method for establishing a deliberate mine field, surveying and laying of field; placing, arming, and burying mines; activating selected antitank mines, and installing antipersonnel mines. Equipment used and camouflage discipline.</i>	No notes.
5-26	1943	Mines. Part V—Antitank Mine Road Blocks. <i>Use and advantages of antitank mine road blocks; laying of mines and dummy mines; use of the antitank-mine string.</i>	Do.
5-27	1943	Mines. Part VI—Booby Traps. <i>Installation and employment between booby traps and antipersonnel mines; nomenclature, precautions, and locations for traps.</i>	Do.
5-29	1943	Footbridge Model 1938. <i>Use and construction procedure; reinforced footbridge; footbridge equipage. Operations of each section of the working party.</i>	Do.
5-30	1943	Engineer Combat Company. <i>Duties and responsibilities of technicians and specialists in an engineer combat battalion. Organization of the company and special duties of squads and platoons; weapons, equipment and tools.</i>	Do.
5-31	1943	Assault Boats. <i>Loading, unloading, and maintenance of M2 assault boat.</i>	Do.
5-32	1943	Floating Bridges. Part III—Ten-Ton Ponton Bridge. <i>Principal parts of the bridge and method of transportation. Details of construction of the deep-water trestle; hinge span raft; floating span and reinforcement for the bridge.</i>	Do.
5-33	1943	Fixed Bridges. Part I—The Timber Trestle Bridge. <i>Procedure of selecting a site; constructing the substructure (footing, abutments, supports, and special supports for unusual conditions) and the superstructure (stringers, flooring, and curbing).</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
5-35	1943	Wire Entanglements. Part II—The Double Apron Fence. <i>Description and construction.</i>	No notes.
5-36	1943	Wire Entanglements. Part III—Portable Wire Obstacles. <i>Illustrates construction and erection of the barbed wire concertina, knife rest, and spirals of loose wire.</i>	Do.
5-37	1943	Antimechanized Obstacles. <i>Employment of antitank obstacles, natural and artificial; bridge demolition, anti-tank mine fields, antitank ditches, craters, cribs, log posts, and hurdles.</i>	Do.
5-38	1943	Passage of Antimechanized Obstacles. <i>Effect of natural obstacles; construction and employment of artificial obstacles.</i>	Do.
5-39	1943	Camouflage. Part I—Erection and Construction of Drapes and Flat-tops. <i>Title is self-explanatory.</i>	Do.
5-40	1943	Interpretation of Aerial Photographs. Part I—Basic Identification. <i>Title is self-explanatory.</i>	Do.
5-41	1943	Interpretation of Aerial Photographs. Part II—Military Interpretation. <i>Title is self-explanatory.</i>	Do.
6-3	1940	Field Artillery Firing—Preparation of Fire. <i>Determination of data with instruments and maps; use of plotting equipment; resituation from air photos; schedule fires; MDC; survey procedure.</i>	Notes.
6-4	1940	Field Artillery Firing, Conduct of Fire—Part I. <i>Aerial precision and bracket, and sensing.</i>	No notes.

6-5	1940	Field Artillery Firing—Conduct of Fire—Part II. <i>Lateral precision and bracket—large and small T.</i>	Notes.
6-6	1940	Field Artillery Firing—Conduct of Fire—Part III. <i>Air observation and liaison methods.</i>	Do.
6-7	1940	Field Artillery—Elementary Gunnery. <i>Interior and exterior ballistics, dispersion, effect of projectiles, and elementary firing.</i>	Do.
6-10	1943	Field Fortifications for Field Artillery. Part I—Hasty Fortifications. <i>Title is self-explanatory.</i>	No notes.
6-11	1943	Field Fortifications for Field Artillery. Part II—Deliberate Fortifications. <i>Title is self-explanatory.</i>	Do.
6-12	1943	Field Fortifications for Field Artillery. Part III—Protection Against Mechanized Forces. <i>Title is self-explanatory.</i>	Do.
6-13	1943	First Echelon Maintenance GMC 2½-Ton 6x6 Truck. Part I—Inspection Before Operation. <i>Title is self-explanatory.</i>	Do.
6-14	1943	First Echelon Maintenance, QMC, 2½-Ton 6x6 Truck. Part II—Inspection During Operation. <i>Title is self-explanatory.</i>	No notes.
6-15	1943	First Echelon Maintenance, GMC, 2½-Ton 6x6 Truck. Part III—Inspection After Operation. <i>Title is self-explanatory.</i>	Do.
6-16	1943	First Echelon Maintenance, GMC, 2½-Ton 6x6 Truck. Part IV—Scheduled Weekly Preventive Maintenance, Emergency Roadside Repairs. <i>Title is self-explanatory.</i>	Do.

16. FILM STRIPS

F.S. Serial No.	Year released	Subject	Remarks
6-17	1943	Subcaliber Equipment for Field Artillery Weapons. Part I—The 37-mm Gun M1916 Subcaliber. <i>Data pertaining to the subcaliber equipment of the howitzer 155-mm M1917 A4 and M1918 A3, and the howitzer 75-mm M1 (pack) and M3A1 (field.)</i>	No notes.
6-18	1943	U. S. Field Artillery Weapons. <i>Illustrates types of early artillery and bombard, and U. S. field artillery weapons, including howitzers.</i>	Do.
6-19	1943	Graphical Firing Table. <i>Function, construction, and identification of slides; indicator; stock; plotting scale, and all tables and data provided by the instrument.</i>	
6-20	1943	Field Artillery Ammunition. Part I—Marking and Packing Transportation. <i>Purpose and methods of marking ammunition; painting projectile rounds; use of bands; marking and base marking of fixed and semifixed ammunition fiber containers and ammunition data tag. Packing procedure and precautions in transportation.</i>	Do.
6-21	1943	Field Artillery Ammunition. Part II—Storage. <i>Details of field storage of ammunition for protection from enemy fire by dispersion, cover, and concealment. Methods of safeguarding against moisture, temperature, dirt, dents, and bursts. Precautions and admonitions.</i>	Do.
6-22	1943	Field Artillery Ammunition. Part III—Care and Handling. <i>Precautions and admonitions for carrying and unpacking ammunition, assembling the rounds; methods to be observed in the following procedures; examination disposal, installation of fuzes, and steps to be taken in case of misfire.</i>	Do.

6-23	1943	Field Artillery Ammunition. Part IV—Projectiles and Propellants. <i>Exterior sections of a modern projectile; function of ogive, bourrelet, rotating band, boat tail, base cover, high explosive charge, fuze and booster; types of chemical shells; nature of the explosion process; igniting and propelling charges of 105-mm and 155-mm guns.</i>	Notes.
6-24	1943	Field Artillery Ammunition. Part V—Fuzes. <i>Function, use, component parts, and detonation of superquick, delay, and time fuzes. Detailed diagrams show the fundamentals of fuze construction and operation.</i>	No notes.
6-25	1943	Field Artillery Ammunition. Part VI—Boosters. <i>Functions, types and characteristics of boosters, operation procedure. Types of fuzes used.</i>	Do.
6-26	1943	Preparation of Field Artillery Matériel for Railway Transport. Part I—Plans, Cars, Loads, Ramps, and Matériels. <i>Title is self-explanatory.</i>	Do.
6-27	1943	Preparation of Field Artillery Matériel for Railway Transport. Part II—Loading and Securing Vehicles. <i>Title is self-explanatory.</i>	Do.
6-28	1943	Preparation of Field Artillery Matériel for Railway Transport. Part III—Loading and Securing Weapons. <i>Title is self-explanatory.</i>	Do.
6-29	1943	Radio Set SCR-284A. Part I—Description and Installation. <i>Details of the medium power, high frequency receiver and transmitter for vehicular or field operation covering frequency range; types of emission; transmitter power and range, and complete installation procedure. Content of packs for three-man portage of equipment for field use.</i>	Do.
6-30	1943	Radio Set SCR-284A. Part II—Operation. <i>Essential initial adjustments of receiver. Use of the transmitter, tuning calibrator, and antenna and the adjustment of the transmitter frequency to that of the net control station. Calibration of transmitter.</i>	Do.

16. FILM STRIPS

F.S. Serial No.	Year released	Subject	Remarks
6-31	1943	The 105-mm Howitzer M2. Part I—Description and Characteristics. <i>Title is self-explanatory.</i>	No notes.
6-32	1943	The 105-mm Howitzer M2. Part II—Mechanical Functioning. <i>Nomenclature and detailed explanation of the operation of all mechanical functioning parts.</i>	Do.
6-33	1943	The Transit. Part I—Description, Set-up, and Leveling. <i>Title is self-explanatory.</i>	Do.
6-34	1943	The Transit. Part II—Verniers. <i>Definition of verniers. Rules and procedure for correct reading of scales. Problems in reading scales including solutions.</i>	Do.
6-35	1943	The 105-mm Howitzer M2. Part IV—Care, Cleaning, and Lubrication. <i>Title is self-explanatory.</i>	Do.
6-36	1943	Sighting and Laying Equipment—Tests and Adjustments—155-mm Howitzer M1917A4 and M1918A3. <i>Tests and adjustments of the gunner's quadrant, panoramic telescope, and quadrant sight prior to firing.</i>	Do.
6-37	1943	The 75-mm Howitzers M1 and M8. Part IV—Disassembly and Loading on Pack Animals for Transport. <i>Title is self-explanatory.</i>	Do.
6-39	1943	The 105-mm Howitzer M2. Part III—Authorized Disassemblies (First Echelon). <i>Title is self-explanatory.</i>	Do.

6-40	1943	Sighting and Laying Equipment Tests and Adjustments—75-mm Howitzer M1 and M8. <i>Correct method of testing gunner's quadrant; testing and adjusting the telescope mount M3 and panoramic telescope M1.</i>	No notes.
6-41	1943	Sighting and Laying Equipment Tests and Adjustments—105-mm Howitzer M2. Tests and adjustments of the gunner's quadrant, panoramic telescope and mount, elbow telescope and mount, and range quadrant prior to firing.	Do.
6-43	1943	Laying the Field Artillery Battery. <i>Operations involved in laying the battery parallel by Y-azimuth (compass), by base angle, and by aiming point and deflection.</i>	Do.
6-44	1943	The 75-mm Howitzers M1 and M8. Part III—Care, Cleaning, and Lubrication. <i>Title is self-explanatory.</i>	Do.
6-45	1943	Sensing of Field Artillery Fire. <i>Title is self-explanatory.</i>	Do.
6-46	1943	The 75-mm Howitzers M1 and M8. Part I—Description and Characteristics. <i>Title is self-explanatory.</i>	Do.
6-47	1943	The 75-mm. Howitzers M1 and M8. Part II—Mechanical Functioning. <i>Explains the operation of breach and firing mechanisms; recoil system; traversing mechanism, and elevating mechanism.</i>	Do.
6-48	1943	Sighting and Laying Equipment Tests and Adjustments, 4.5-Inch Gun M1 and 155-mm Howitzer M1. <i>Title is self-explanatory.</i>	Do.
7-1	1940	The U. S. Rifle, Cal. .30, M1. Part I—Mechanical Training, Care and Cleaning, Functioning. <i>Title is self-explanatory.</i>	Do.
7-2	1940	The U. S. Rifle, Cal. .30, M1. Part II—Mechanical Training, Stoppages and Immediate Action, Service of the Piece. <i>Title is self-explanatory.</i>	Do.

16. FILM STRIPS

F.S. Serial No.	Year released	Subject	Remarks
7-3	1940	The U. S. Rifle, Cal. .30, M1. Part III—Marksmanship. <i>Title is self-explanatory.</i>	No notes.
7-5	1940	The U. S. Rifle, Cal. .30, M1903. Part I—Description, Disassembling, Assembling, Care, and Cleaning. <i>Title is self-explanatory.</i>	Do.
7-6	1940	The U. S. Rifle, Cal. .30, M1903. Part II—Functioning, Individual Safety Precautions. <i>Title is self-explanatory.</i>	Do.
7-7	1940	Infantry Weapons and Their Characteristics—Individual Weapons. <i>Characteristics and use of U. S. rifle, caliber .30, M1, M1903, M1903A1; U. S. rifle, caliber .22, M1922M1; bayonet M1905; Browning automatic rifle, caliber .30, M1918, M1918A1, M1918A2; automatic pistol, caliber .45, M1911, M1911A1; hand grenade Mk. II, CN-DM M6, CN M7.</i>	Do.
7-8	1940	Infantry Weapons and Their Characteristics—Crew-Served Weapons. <i>Characteristics and use of Browning machine gun, caliber .30, M1917, M1919A4; Browning machine gun, caliber .50; 37-mm gun M1916; 37-mm antitank gun M3; 60-mm mortar M2; 81-mm mortar M1.</i>	Do:
7-9	1940	Infantry Signals. Part I—Whistle Signals, General Arm-and-Hand Signals. <i>Title is self-explanatory.</i>	Do.
7-10	1940	Infantry Signals. Part II—Signals For Crew-Served Weapons. <i>Title is self-explanatory.</i>	Do.

7-11	1940	The 60-mm Mortar M2. Part I—Organization, Description, Disassembling, Assembling, Care, and Cleaning. <i>Title is self-explanatory.</i>	No notes.
7-12	1941	The 60-mm Mortar M2. Part II—Sighting Equipment, Instruments, Ammunition, Safety Precaution, and Misfires. <i>Title is self-explanatory.</i>	Do.
7-13	1941	The 60-mm Mortar M2. Part III—Placing Mortar in Action. <i>Methods of transportation, hand carrying of equipment, and training in duties of each man; mounting the mortar, firing, removing a misfire, and going out of action; method of mounting on steep slopes.</i>	Do.
7-14	1941	Manual of the Saber. <i>Title is self-explanatory.</i>	Do.
7-15	1941	The 60-mm Mortar M2. Part IV—Marksmanship. <i>Title is self-explanatory.</i>	Do.
7-16	1941	The Automatic Pistol, Cal. .45, M1911, M1911A1. Part I—Mechanical Training, Description, Nomenclature, Ammunition. <i>Title is self-explanatory.</i>	Do.
7-17	1941	The Automatic Pistol, Cal. .45, M1911, 1911A1. Part II—Disassembling, Assembling, Care, and Cleaning. <i>Title is self-explanatory.</i>	Do.
7-18	1942	Pitching and Striking the Pyramidal Tent. <i>Title is self-explanatory.</i>	Do.
7-19	1942	Pitching and Striking the Wall Tent. <i>Title is self-explanatory.</i>	Do.
7-20	1942	Arm and Hand Signals for Motor Transport. <i>Diagrams civilian hand signals, electrical and mechanical signals, standard infantry signals.</i>	Do.

16. FILM STRIPS

F.S. Serial No.	Year released	Subject	Remarks
7-21	1942	Antimechanized Defense. Part I—Passive Means of Defense, Natural and Artificial Obstacles, Exclusive of Mines and Demolitions. <i>Title is self-explanatory.</i>	No notes.
7-22	1942	Pitching and Striking the Latrine Screen. <i>Title is self-explanatory.</i>	Do.
7-23	1941	Manual of the Guidon. <i>Title is self-explanatory.</i>	Do.
7-24	1941	The 81-mm Mortar M1. Part I—Mechanical Training, Description, Mounting, Dismounting, Care, and Cleaning. <i>Title is self-explanatory.</i>	Do.
7-25	1941	The 81-mm Mortar M1. Part II—Mechanical Training, Sighting Equipment, Spare Parts, Accessories, Fire Control Instrument. <i>Title is self-explanatory.</i>	Do.
7-26	1941	The 81-mm Mortar M1. Part III—Mechanical Training, Ammunition, Firing Precautions, Misfires. <i>Title is self-explanatory.</i>	Do.
7-27	1941	The 81-mm Mortar M1. Part IV—Training for Placing Mortar in Action. <i>Title is self-explanatory.</i>	Do.
7-28	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1. Part I—First Step, Sighting and Aiming Exercises. <i>Title is self-explanatory.</i>	Do.

7-29	1942	Identification of Foreign Mechanized Vehicles. Italian Armored Cars and Tanks. <i>Title is self-explanatory.</i>	Part II—Identification of	No notes.
7-30	1942	Identification of Foreign Mechanized Vehicles. Japanese Tanks and Armored Cars. <i>Title is self-explanatory.</i>	Part III—Identification of	Do.
7-32	1941	The Browning Automatic Rifle, Cal. .30, M1918, assembling and Assembling the Bipod. <i>Title is self-explanatory.</i>	Part II—Dis-	Do.
7-33	1942	The Browning Automatic Rifle, Cal. .30, M1918 Mechanical Training, General Description, Disassembling and Assembling. <i>Title is self-explanatory.</i>	Part I—	Do.
7-38	1941	U. S. Rifle, Cal. .30, M1903. Exercises. <i>Title is self-explanatory.</i>	Part III—Marksmanship, 1st, 2nd, and 3rd	Do.
7-39	1942	Rifle Marksmanship, Range Practice, U. S. Rifle, Cal. .30, M1. Precautions. <i>Title is self-explanatory.</i>	Part I—Safety	Do.
7-40	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1. Step Position Exercises. <i>Title is self-explanatory.</i>	Part II—Second	Do.
7-41	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1. Step, Rapid Fire. <i>Title is self-explanatory.</i>	Part IV—Fourth	Do.
7-45	1941	Browning Machine Gun, Cal. .30, M1917. General Characteristics, Description. <i>Title is self-explanatory.</i>	Part I—Mechanical Training,	Do.

16. FILM STRIPS

F.S. Serial No.	Year released	Subject	Remarks
7-46	1941	Browning Machine Gun, Cal. .30, M1917. Part II—Disassembling, Assembling, by Groups. <i>Title is self-explanatory.</i>	No notes.
7-47	1941	Browning Machine Gun, Cal. .30, M1917. Part III—Detailed Disassembling, Bolt, Lock Frame, Barrel Extension, Cover. <i>Title is self-explanatory.</i>	Do.
7-48	1941	Browning Machine Gun, Cal. .30, M1917. Part IV—Disassembling Parts Dis-mounted Only for Repair, Packing the Barrel, Methods of Changing Parts. <i>Title is self-explanatory.</i>	Do.
7-49	1941	The Browning Machine Gun, Cal. .30, M1917. Part V—Care and Cleaning, Care During a Gas Attack. <i>Title is self-explanatory.</i>	Do.
7-50	1942	Browning Machine Gun, Cal. .30, M1917. Part VI—Mechanical Functioning, Loading, Unloading, Clearing Gun, Trigger Action, Backward Movement of Parts. <i>Title is self-explanatory.</i>	Do.
7-51	1942	Browning Machine Gun, Cal. .30, M1917. Part VII—Mechanical Functioning, Forward Movement of Parts, Automatic Fire. <i>Title is self-explanatory.</i>	Do.
7-53A	1942	Browning Machine Gun, Cal. .30, M1917. Part IX—Section I—Training for Placing the Gun in Action, Gun Drill. <i>Title is self-explanatory.</i>	Do.

7-56	1941	Browning Machine Gun, Cal. .30, M1917. Part XII—Technique of Fire, Direct Laying, Characteristics of Fire, Classes of Fire, Range Determination and Windage. <i>Title is self-explanatory.</i>	No notes.
7-57	1941	Browning Machine Gun, Cal. .30, M1917. Part XIII—Technique of Fire, Direct Laying, Target Designation, Fire Distribution, Fire Control, Fire Orders. <i>Title is self-explanatory.</i>	Do.
7-58	1941	Browning Machine Gun, Cal. .30, M1917. Part XIV—Technique of Fire, Direct Laying, Overhead Fire. <i>Title is self-explanatory.</i>	Do.
7-60	1941	The Browning Machine Gun, Cal. .30, HB, M1919A4 (Ground). Part I—Mechanical Training, Description Disassembling, Assembling by Groups. <i>Title is self-explanatory.</i>	Do.
7-61	1941	The Browning Machine Gun, Cal. .30, HB, M1919A4 (Ground). Part II—Mechanical Training, Detailed Disassembling, Disassembling Only for Repair, Changing Parts. <i>Title is self-explanatory.</i>	Do.
7-63	1942	Browning Machine Gun, Cal. .30, M1917. Part VIII—Section I—Stoppages and Immediate Action. <i>Title is self-explanatory.</i>	Do.
7-64	1942	Browning Machine Gun, Cal. .30, M1917. Part VIII—Section II—Tripod Mountings, Accessories, Fire Control Instruments and Ammunition. <i>Title is self-explanatory.</i>	Do.
7-65	1942	The Browning Machine Gun, Cal. .30, M1917. Part XI—Section I—Machine Gun Marksmanship, Preparatory Exercises, Sighting and Aiming Exercises. <i>Title is self-explanatory.</i>	Do.
7-68	1941	37-mm Antitank Gun M3. Part I—Characteristics, Description. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
7-69	1942	Browning Machine Gun, Cal. .50 HB (Flexible), M2 (Ground). Part I—Mechanical Training, Description, Characteristics. <i>Title is self-explanatory.</i>	No notes.
7-70	1942	Browning Machine Gun, Cal. .50 HB (Flexible), M2 (Ground). Part II—Mechanical Training (Cont'd), Assembling and Disassembling by Groups, Head Space Adjustment. <i>Title is self-explanatory.</i>	Do.
7-71	1942	Browning Machine Gun, Cal. .50 HB (Flexible), M2 (Ground). Part III—Care and Cleaning, Spare Parts, Accessories, and Ammunition. <i>Title is self-explanatory.</i>	Do.
7-72	1942	37-mm Gun, Antitank, M3. Part II—Disassembling, Assembling. <i>Title is self-explanatory.</i>	Do.
7-73	1942	37-mm Gun, Antitank, M3. Part IV—Care and Cleaning. <i>Title is self-explanatory.</i>	Do.
7-74	1942	Browning Automatic Rifle, Cal. .30, M1918A2 With Bipod. Part I—Mechanical Training. <i>Complete description of mechanical training, exercised in the disassembly and assembly of the Browning automatic rifle.</i>	Do.
7-75	1942	Visual Aids to Training: <i>Complete discussion and demonstration of illustrated problems which can be solved and simplified by the following visual aids; blackboards, charts, models, sand tables, motion pictures, film strips, and opaque projection.</i>	Do.

7-76	1942	37-mm Gun, Antitank, M3. Part III—Mechanical Functioning. <i>Title is self-explanatory.</i>	No notes.
7-77	1942	U. S. Carbine, Cal. .30, M1. Part I—Characteristics and Descriptions. <i>Title is self-explanatory.</i>	Do.
7-78	1942	Identification of Foreign Mechanized Vehicles. Part I—Identification of German Tanks and Armored Cars. <i>Title is self-explanatory.</i>	Do.
7-79	1942	Air-Landed Troops and C-47 Airplanes. <i>Proper method of marking and packing of equipment in the C-47 airplane; also correct storage of rifles, parachutes, use of parachutes, and the change from paratroop regalia to combat equipment on landing.</i>	Do.
7-80	1942	Thirty-seven (37) mm Antitank Gun in C-47 Airplanes. <i>Proper method of loading the gun in the C-47 airplanes using the two ramp treadways:</i>	Do.
7-81	1942	Seventy-five (75) mm, Pack Howitzer in C-47 Airplanes. <i>Complete loading procedure of the 75-mm pack Howitzer into the C-47 airplanes.</i>	Do.
7-82	1942	One-Ton Trailer in C-47 Airplanes. <i>Loading process of the 1-ton trailer, less bows and top, into the C-47 airplane; this loading process cannot be accomplished in earlier models.</i>	Do.
7-83	1942	The 1/4-Ton Truck in C-47 Airplanes. <i>Routine minor changes which have to be accomplished before loading the 1/4-ton truck into a C-47 airplane; this loading process cannot be accomplished in earlier models of this type of airplane.</i>	Do.
7-84	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1. Part III—Trigger Squeeze Exercises. <i>Title is self-explanatory.</i>	Do.
7-85	1942	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1. Part V—Effect of Wind, Sight Changes, Use of the Score Book. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
7-86	1942	Browning Machine Gun, Cal. .30, M1917. Part IX—Section II—Training for Placing the Gun in Action, Gun Drill. <i>Title is self-explanatory.</i>	No notes.
7-87	1942	Browning Machine Gun, Cal. .30, M1917. Part X—Training for Placing the Gun in Action, Battery Drill. <i>Title is self-explanatory.</i>	Do.
7-88	1942	Antitank Grenades. Part I—Description, Types, Characteristics, and Mechanical Training. <i>Title is self-explanatory.</i>	Do.
7-89	1943	The Use of the Message Book. <i>Title is self-explanatory.</i>	Do.
7-90	1943	Rifle Marksmanship, Range Practice, U. S. Rifle, Cal. .30, M1. Part II—Duties of the Coach. <i>Title is self-explanatory.</i>	Do.
7-91	1943	Identification of Foreign Mechanized Vehicles. Part IV—Identification of Russian Tanks and Armored Cars. <i>Title is self-explanatory.</i>	Do.
7-92	1943	The CG-4A Glider. Part I—General Description. <i>Title is self-explanatory.</i>	Do.
7-93	1943	The CG-4A Glider. Part II—Supplies and Light Cargo. <i>Title is self-explanatory.</i>	Do.

7-96	1943	U. S. Carbine, Cal. .30, M1. Part II—Disassembly and Assembly. <i>Title is self-explanatory.</i>	No notes.
7-97	1943	Antitank Grenades. Part II—Marksmanship. <i>Title is self-explanatory.</i>	Do.
7-99	1943	The 60-mm Mortar M2. Part V—The Training of the Observer. <i>Duties of the observer in a 60-mm mortar squad, including the preparation of initial firing data, estimating ranges, sensing, and firing for adjustment; special combat expedients; use of firing tables, and the giving of accurate fire orders.</i>	Do.
7-100	1943	The 37-mm Gun, Antitank, M3. Part V—Immediate Action and Stoppages. <i>Title is self-explanatory.</i>	Do.
7-101	1943	Antiaircraft Defense, Active and Passive—Individuals and Small Units. <i>Illustrates principles of antiaircraft observation; firing with small arms; concealment; use of shadows; dispersion and covers; excavations for individual cover, and camouflage discipline.</i>	Do.
7-102	1943	Pioneer Equipment For Infantry—General Description and Use. <i>Title is self-explanatory.</i>	Do.
7-103	1943	The 37-mm Gun, Antitank, M3. Part VI—Preparatory Marksmanship Training. <i>Title is self-explanatory.</i>	Do.
7-104	1943	Identification of Foreign Mechanized Vehicles. Part V—Identification of British Armored Cars and Tanks. <i>Title is self-explanatory.</i>	Do.
7-106	1943	Browning Automatic Rifle, Cal. .30, M1918A2, With Bipod. Part II—Mechanical Training (Cont'd), Operation. <i>Title is self-explanatory.</i>	Do.
7-107	1943	Hand Grenades. Part III—Grenade-Projection Adapter M1, With the M1903 and M1917 Rifles. <i>Describes the grenade-projection adapter M1, with the fragmentation grenade Mk. II; includes the assembling, loading and firing, positions, technique of fire, and a range table.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
7-110	1943	Hand Grenades. Part I—Types and Characteristics. <i>Title is self-explanatory.</i>	No notes.
7-111	1943	U. S. Carbine, Cal. .30, M1. Part III—Marksmanship, Known Distance Targets. <i>Title is self-explanatory.</i>	Do.
7-112	1943	Technique of Fire of the Rifle Squad. Part I—Range Estimation and Target Designation. <i>Title is self-explanatory.</i>	Do.
7-113	1943	The CG-4A Glider. Part III—The ¼-Ton Truck. <i>Covers detailed procedure for loading, securing, and unloading the ¼-ton truck. Stresses safety precautions.</i>	Do.
7-114	1943	Ammunition and Pioneer Platoon. Part I—Ammunition Supply. <i>Operation of the battalion ammunition service; methods of delivering ammunition to using troops; identification, care, and handling of the various types of ammunition used in the infantry battalion.</i>	Do.
7-115	1943	Browning Automatic Rifle, Cal. .30, M1918A2. Part. III—Care and Cleaning. <i>Title is self-explanatory.</i>	Do.
7-116	1943	The CG-4A Glider. Part IV—The ¼-Ton Trailer. <i>Complete details of the preparation, loading, and placement of the ¼-ton trailer. Instructions on landing the cargo glider and towing of the trailer.</i>	Do.
7-117	1943	Air-Ground Visual Communication. Part I—Marking of Vehicles as a Means of Identification.	Do.

7-118	1943	<i>Describes the dimensions, physical properties, and uses of the fluorescent panels A1-140 and A1-141 as a means of marking vehicles for identification.</i>	No notes.
		Technique of Fire of the Rifle Squad. Part II—Rifle and Automatic Rifle Fire and Its Effect. <i>Title is self-explanatory.</i>	
7-119	1943	The Ammunition and Pioneer Platoon. Part II—Pioneer Duties. <i>Title is self-explanatory.</i>	Do.
7-120	1943	Browning Automatic Rifle, Cal. .30, M1918A2. Part IV—Stoppages and Immediate Action. <i>Title is self-explanatory.</i>	Do.
7-121	1943	Individual Protection, Hasty Field Fortifications. Part I—Intrenchments. <i>Title is self-explanatory.</i>	Do.
7-122	1943	Individual Protection, Hasty Field Fortifications. Part II—Weapon Emplacements. <i>Title is self-explanatory.</i>	Do.
7-123	1943	Technique of Fire of the Rifle Squad. Part IV—Application of Fire. <i>Title is self-explanatory.</i>	Do.
7-124	1943	Impact Fragmentation Rifle Grenade M17. <i>Describes the impact fragmentation rifle grenade M17 (formerly the T2). Includes the loading, firing, positions, technique of fire, safety precautions, and range tables.</i>	Do.
7-125	1943	Technique of Fire of the Rifle Squad. Part III—Use of Hand and Rifle Grenades. <i>Technique of employment of the following types of grenades: grenade with fragmentation effect, antitank rifle grenades, smoke grenades, incendiary grenades, and grenades which release irritant or toxic gases.</i>	Do.
7-126	1943	The CG-4A Glider. Part V—37-mm AT Gun. <i>Proper procedure for loading and lashing a 37-mm antitank gun and ammunition in a cargo glider.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
7-127	1943	Pitching and Striking the Squad Tent M1942. <i>Title is self-explanatory.</i>	No notes.
7-128	1943	Hand Grenades. Part IV—Grenade-Projection Adapter with the M1 Rifle and the Carbine. <i>Adjusting the grenade on the grenade-projection adapter; launcher positions; angles of elevation; range tables; firing positions; loading and firing; safety precautions.</i>	Do.
7-129	1943	Fifty-Seven (57) mm Gun, Antitank, M1. Part I—Characteristics and Description. <i>Characteristics; description of the gun; description of the carriage M1A3; sighting equipment; ammunition.</i>	Do.
7-130	1943	Fifty-Seven (57) mm Gun, Antitank, M1. Part II—Disassembly and Assembly. <i>Describes the disassembly of firing case; assembly of firing case; disassembly of breechblock; assembly of breechblock.</i>	Do.
7-135	1943	Stream Crossing Expedients. Part I—Improvised Flotation Methods. <i>Shows construction of floats, rafts, and outriggers; their employment in crossing individuals and their equipment, machine guns, mortars, light trucks, antitank guns, and the 105-mm howitzer M3.</i>	Do.
8-12	1940	Military Sanitation—Control of Insect-Borne Diseases. <i>Sanitary devices for fly, mosquito, louse, and flea control, including rat proofing.</i>	Do.
8-13	1940	Military Sanitation—Sanitary Inspection Reports, Orders and Surveys, Statistical Methods. <i>Title is self-explanatory.</i>	Do.

8-23	1941	Medical Battalion. <i>The organization, combat functions, functions other than combat, and the establishment of the various installations of the medical battalion designed to render service for the infantry division (triangular), infantry division (triangular, motorized), and those units known as corps troops.</i>	No notes
8-24	1941	Shelter Tent Pitching. <i>Details each step in the erection of the single shelter tent and the double shelter tent.</i>	Notes.
8-26	1942	The Roller Bandages—Barton, Modified Barton, and Parker. <i>Method of application.</i>	Do.
8-27	1942	The Roller Bandages—Circular, Modified Gibson, Knotted Recurrent Bandage of Head. <i>Method of application.</i>	Do.
8-28	1942	The Roller Bandages—Four-Tailed, First Aid Packet, Figure-of-Eight, Crossed (One Eye), Crossed (Both Eyes). <i>Method of application.</i>	Do.
8-30	1942	Triangular Bandages—Face and Jaw Wounds, Triangles, Cravats. <i>Method of application.</i>	Do.
8-31	1942	Roller Bandages—Face and Jaw Wounds. <i>Method of application.</i>	Do.
8-32	1942	Extra-Oral Traction Appliances—Wooden Tongue Depressor Traction Appliance, Metal Coat Hanger Traction Appliance. <i>Method of application.</i>	Do.
8-33	1942	Clearing of Air Passage—Face and Jaw Wounds. <i>Title is self-explanatory.</i>	Do.
8-34	1942	Infra and Extra Oral Splints. <i>Designing, fabricating, vulcanizing, casting, curing, preparing of various types of oral splints; adjustment and application of vulcanite, silver, and acrylic resin splints.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
8-35	1942	Control of Hemorrhage—Face and Jaw Wounds. <i>Digital pressure, compress, pack, bandage, ligations. Stabilization and fixation of part, prevention of shock, litter and ambulance evacuation.</i>	Notes
8-36	1942	Care and Treatment of Face and Jaw Wounds. <i>Title is self-explanatory.</i>	Do.
8-37	1942	Immobilization of Fractures. <i>Title is self-explanatory.</i>	Do.
8-38	1942	General Structure of the Horse and Mule. <i>Title is self-explanatory.</i>	No notes.
8-39	1942	Heavy Tent Pitching—Hospital Tentage, Ward Tent. <i>Title is self-explanatory.</i>	Notes.
8-41	1942	Emergency Measures for Wounds and Their Immediate Complications. <i>Title is self-explanatory.</i>	Do.
8-42	1942	Preparation and Administration of Intravenous Solutions. <i>Title is self-explanatory.</i>	Do.
8-43	1942	Methods of Military Training. <i>Title is self-explanatory.</i>	No notes.
8-44	1942	Medical Service of the Cavalry Division: <i>Title is self-explanatory.</i>	Do.

8-45	1942	Restraint and Control of Animals. <i>Title is self-explanatory.</i>	No Notes.
8-49	1942	Animal Injuries—Prevention, First Aid, and Emergency Treatment. <i>Title is self-explanatory.</i>	Do.
8-50	1943	Application of the Army Hinged, Half-Ring Leg Splint. <i>Title is self-explanatory.</i>	Notes.
8-51	1943	Reconstitution and Use of Standard Army-Navy Package of Normal Human Plasma, Dried. <i>Title is self-explanatory.</i>	Do.
8-52	1943	Mess Improvement. Part I—Promoting Good Food Habits. (Color and sound.) <i>Preparation and serving of meals.</i>	Do.
8-53	1943	Mess Improvement. Part II—Food for Health (Color and sound). <i>Major vitamin sources, including vitamin A, thiamin, riboflavin, ascorbic acid, and niacin.</i>	Do.
8-54	1943	Animal Diseases—Prevention, First Aid, Emergency Treatment. <i>Title is self-explanatory.</i>	No notes.
8-55	1943	Classes and Grades of Poultry. <i>Title is self-explanatory.</i>	
8-56	1943	Types and Forms of Cheese. <i>Title is self-explanatory.</i>	Do.
8-57	1943	Venereal Disease—V. D. <i>Title is self-explanatory.</i>	Notes.
8-58	1943	Venereal Disease Prophylaxis. <i>Title is self-explanatory.</i>	Do.
8-59	1943	Venereal Disease—Control. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
8-60	1943	Sanitation—Disposal of Waste. <i>Title is self-explanatory.</i>	Notes.
8-61	1943	Mess Sanitation. <i>Shows sanitation devices and methods to be used in messes in order to control intestinal diseases, including field messes, ice boxes, fly control, washing of mess kits, and precautions in the preparation of food.</i>	Do.
8-62	1943	Water Supply and Purification. <i>Covers in detail, source of water supply; procurement and distribution, specifying average water requirements. Illustrates methods of purification by engineers, unit purification, and other methods.</i>	Do.
8-63	1943	Housing and the Control of Respiratory Diseases. <i>Title is self-explanatory.</i>	Do.
8-70	1943	First Aid For Noncombat Injuries. <i>Stresses the employment of improvised means to provide the necessary first aid for the following injuries and emergencies: minor wounds; burns; simple fractures; sprains; injured back and spine; drowning; electric shock; carbon-monoxide poisoning; snake-bite; foreign body in eye, ear, nose, throat, and skin; blister; poison ivy, oak, and sumac; fainting; heatstroke; and unconsciousness of unknown cause.</i>	Do.
8-71	1943	First Aid—Transportation of Casualties. <i>Title is self-explanatory.</i>	Do.
8-73	1943	Medical Supply. <i>Title is self-explanatory.</i>	Do.

8-74	1943	The Morphine Syrette. <i>Illustrates the proper use of the morphine syrette, and explains when and how to administer morphine.</i>	No notes.
8-75	1943	Medical Service of the Infantry Division. Part I—Medical Detachment. <i>Introduces the subject of the medical service of the infantry division, to supplement lectures, conferences, demonstrations, and practical application in the field.</i>	Do.
8-76	1943	Medical Service of the Infantry Division. Part II—The Medical Battalion.	Do.
8-78	1943	Ambulance Loading and Unloading, Cross Country Ambulance. <i>Illustrates the systematic steps in loading and unloading of the $\frac{3}{4}$-ton, 4x4 cross-country ambulance.</i>	Do.
9-1	1940	Ordinance Matériel—Small Arms, Rifles, Pistols, Revolvers, Automatic Rifles. <i>Title is self-explanatory.</i>	Notes.
9-2	1940	Ordinance Matériel—Infantry and Cavalry Accompanying Weapons. <i>Title is self-explanatory.</i>	No notes.
9-3	1940	Ordinance Matériel—Machine Guns and Mounts. <i>Title is self-explanatory.</i>	Do.
9-4	1940	Ordinance Matériel, General—Field Artillery, Guns. <i>Title is self-explanatory.</i>	Notes.
9-5	1940	Ordinance Matériel, General—Railway and Seacoast Artillery. <i>Title is self-explanatory.</i>	Do.
9-6	1940	Ordinance Matériel, General, Aircraft and Antiaircraft Artillery. Part I—Guns. <i>Title is self-explanatory.</i>	Do.
9-7	1940	Ordinance Matériel, General, Aircraft and Antiaircraft Artillery. Part II—Fire Controls. <i>Title is self-explanatory.</i>	Do.
9-8	1940	Ordinance Matériel, General—Automotive Matériel. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-9	1942	Gun, Automatic, 20-mm, M2—Disassembly and Assembly of Weapon. <i>Title is self-explanatory.</i>	Notes.
9-10	1942	Gun, 75-mm, M1897A4 and Gun Carriage, M2A3. Part I—Basic Disassembly and Assembly. <i>Title is self-explanatory.</i>	Do.
9-11	1942	Gun, 75-mm, M1897A4 and Gun Carriage, M2A3. Part II—Disassembly and Assembly of Units. <i>Illustrates the disassembly and assembly of the units. Designed primarily for use of ordnance personnel.</i>	Do.
9-15	1940	Ammunition, General, Military Explosives. <i>Title is self-explanatory.</i>	Do.
9-16	1940	Ammunition, General, Small Arms. <i>Title is self-explanatory.</i>	Do.
9-17	1940	Ammunition, General, Artillery Ammunition. <i>Title is self-explanatory.</i>	Do.
9-18	1941	Ammunition, General, Bombs and Pyrotechnics. <i>Illustrates types of bombs, nose and tail fuzes. Includes a table of bomb assemblies, correct to 1 September, 1940.</i>	Do.
9-19	1941	Hand Grenades and Trench Mortar Ammunition. <i>Illustrates types of ammunition and containers for shipment and storage in the field.</i>	Do.

9-20	1942	The U. S. Rifle, Cal. .30, M1. Part I—Disassembly and Assembly (3d and 4th Echelon). <i>Title is self-explanatory.</i>	Notes.
9-21	1942	The U. S. Rifle, Cal. .30, M1903A1. Part I—Disassembly and Assembly (3d and 4th Echelon). <i>Title is self-explanatory.</i>	Do.
9-22	1942	The U. S. Rifle, Cal. .30, M1903A1. Part II—Inspection and Repair (3d and 4th Echelon). <i>Title is self-explanatory.</i>	Do.
9-23	1942	The U. S. Rifle, Cal. .30, M1. Part II—Inspection and Repair (3d and 4th Echelon). <i>Title is self-explanatory.</i>	Do.
9-24	1942	The Browning Machine Gun, Cal. .50, M2. Part I—Disassembly and Assembly (3d and 4th Echelon). <i>Title is self-explanatory.</i>	Do.
9-26	1942	Howitzer, 105-mm, M2A1 and Carriage, Howitzer, 105-mm, M2. Part I—Basic Disassembly and Assembly. <i>Title is self-explanatory.</i>	Do.
9-27	1942	Howitzer, 105-mm, M2A1 and Carriage, M2. Part II—Nomenclature, Disassembly and Assembly of Units, Inspection. <i>Title is self-explanatory.</i>	Do.
9-28	1942	Gun, Automatic, 37-mm, M4. Part I—Disassembly and Assembly of Weapon. <i>Title is self-explanatory.</i>	Do.
9-29	1942	Gun, Automatic, 37-mm, M4. Part II—Disassembly and Assembly of Weapon. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-30	1942	Unexploded Bombs. Part I—Objects Which May Be Dropped From the Air. <i>Demonstration on following objects and their condition as found after air raid: German, Italian, and Japanese HE bombs; German incendiary bombs; parachute mines; parachute flares; airplane cannon shells.</i>	Notes.
9-31	1942	Unexploded Bombs. Part II—Reconnaissance of Air Raid Accidents. <i>Distinguishing characteristics of high and low altitude bombing in respect to spontaneous and delayed explosions; charts and effects of unexploded bombs on ground, roads, buildings.</i>	Do.
9-32	1942	Unexploded Bombs. Part III—Evacuation and Traffic Restrictions, Protection Against Unexploded Bombs. <i>Detailed instructions respecting buried and unburied bombs, parachute mines, anti-aircraft shells, camouflages; protection against U.X.B.</i>	Do.
9-33	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part I—Disassembly of the Dual Engine Unit Into Single Engines, Assembly of the Single Engines Into Dual Engine. <i>Title is self-explanatory.</i>	Do.
9-34	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part II—Removal and Replacement of the Cylinder Block Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-35	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part III—Disassembly and Assembly of the Cylinder Block. <i>Title is self-explanatory.</i>	Do.

9-36	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part IV —Disassembly and Assembly of the Cylinder Head; <i>Title is self-explanatory.</i>	Part IV	Notes.
9-37	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part V —Disassembly and Assembly of the Blower; <i>Title is self-explanatory.</i>	Part V	Do.
9-38	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part VI —Disassembly and Assembly of the Pump Assemblies, Water Pump, Fuel Pump, Oil Pump; <i>Title is self-explanatory.</i>	Part VI	Do.
9-39	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part VII —Disassembly and Assembly of Governor Assembly, Blower Drive Coupling Assembly, Camshaft and Balance Shaft Assemblies, Air Heaters. <i>Title is self-explanatory.</i>	Part VII	Do.
9-40	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part VIII —Disassembly and Assembly of Engine Transfer Gear Housing, Clutch Housing, Clutch, Fan Assemblies. <i>Title is self-explanatory.</i>	Part VIII	Do.
9-41	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine—Part XI —Disassembly and Assembly of the Injector. <i>Title is self-explanatory.</i>	Part XI	Do.
9-42	1942	Disassembly and Assembly of the Dual General Motors Diesel Engine. Part X —Disassembly and Assembly of the Generator and Starting Motor Assembly. <i>Title is self-explanatory.</i>	Part X	Do.
9-43	1942	Dual General Motors Diesel Engine-Blower System, Assembly and Timing. <i>Title is self-explanatory.</i>		Do.
9-44	1942	Dual General Motors Diesel Engine-Blower System, Theory of Operation. <i>Title is self-explanatory.</i>		Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-45	1942	Rifle, U. S., Cal. .30 M1917 (Enfield). <i>Nomenclature and precautions.</i>	Notes.
9-47	1943	Cadillac Engine, Disassembly and Assembly. Part I—Removal of Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-48	1943	Cadillac Engine, Disassembly and Assembly. Part II—Replacement of Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-49	1943	Cadillac Engine, Disassembly and Assembly. Part III—Disassembly of Cylinder Block. <i>Title is self-explanatory.</i>	Do.
9-50	1943	Cadillac Engine, Disassembly and Assembly. Part IV—Assembly of Cylinder Block. <i>Title is self-explanatory.</i>	Do.
9-51	1943	Cadillac Engine, Disassembly and Assembly. Part V—Disassembly and Assembly of Starter and Generator. <i>Title is self-explanatory.</i>	Do.
9-52	1943	Cadillac Engine, Disassembly and Assembly. Part VI—Disassembly and Assembly of Distributor and Support. <i>Title is self-explanatory.</i>	Do.
9-53	1943	Cadillac Engine, Disassembly and Assembly. Part VII—Disassembly and Assembly of Subassemblies. <i>Title is self-explanatory.</i>	Do.

9-54	1943	Cadillac Engine, Disassembly and Assembly. Part VIII—Disassembly and Assembly of Carburetors. <i>Title is self-explanatory.</i>	Notes.
9-55	1943	Power Train For Tank M4, Disassembly and Assembly. Part I—Disassembly and Assembly of Power Train Into Major Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-56	1943	Power Train For Tank M4, Disassembly and Assembly. Part II—Disassembly and Assembly of Differential Carrier and Steering Brakes. <i>Title is self-explanatory.</i>	Do.
9-57	1943	Power Train For Tank M4, Disassembly and Assembly. Part III—Disassembly and Assembly of Differential. <i>Title is self-explanatory.</i>	Do.
9-58	1943	Power Train For Tank M4, Disassembly and Assembly. Part IV—Disassembly and Assembly of Final Drive Unit. <i>Title is self-explanatory.</i>	Do.
9-59	1943	Power Train For Tank M4, Disassembly and Assembly. Part V—Disassembly of Transmission. <i>Title is self-explanatory.</i>	Do.
9-60	1943	Power Train For Tank M4, Disassembly and Assembly. Part VI—Disassembly of Transmission (Continued). <i>Title is self-explanatory.</i>	Do.
9-61	1943	Power Train For Tank M4, Disassembly and Assembly. Part VII—Assembly of Transmission. <i>Title is self-explanatory.</i>	Do.
9-62	1943	Power Train For Tank M4, Disassembly and Assembly. Part VIII—Disassembly and Assembly of In-Put Shaft and Counter Shaft. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-63	1943	Power Train For Tank M4, Disassembly and Assembly: Part IX—Disassembly and Assembly of Out-Put Shaft. <i>Title is self-explanatory.</i>	Notes.
9-64	1943	Power Train For Tank M4, Disassembly and Assembly. Part X—Disassembly and Assembly of Transmission Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-65	1943	Power Train For Tank M5, Disassembly and Assembly. Part I—Disassembly and Assembly of Power Train Into Major Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-66	1943	Power Train For Tank M5, Disassembly and Assembly. Part II—Disassembly and Assembly of Transfer Unit, Removal of Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-67	1943	Power Train For Tank M5, Disassembly and Assembly. Part III—Disassembly and Assembly of Transfer Unit, Removal of Subassemblies (Continued). <i>Title is self-explanatory.</i>	Do.
9-68	1943	Power Train For Tank M5, Disassembly and Assembly. Part IV—Assembly of Transfer Unit, Replacement of Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-69	1943	Power Train For Tank M5, Disassembly and Assembly. Part V—Disassembly and Assembly of Transfer Unit, Reverse and Low Gear Brake Servos. <i>Title is self-explanatory.</i>	Do.

9-70	1943	Power Train For Tank M5, Disassembly and Assembly. Part VI—Disassembly and Assembly of Transfer Unit, Oil Pump Governor Carrier. <i>Title is self-explanatory.</i>	Notes:
9-71	1943	Power Train For Tank M5, Disassembly and Assembly. Part VII—Disassembly and Assembly of Transfer Unit, Valve and Accumulator Body Assembly. <i>Title is self-explanatory.</i>	Do.
9-72	1943	Power Train For Tank M5, Disassembly and Assembly. Part VIII—Disassembly and Assembly of Transfer Unit, Low Gear Brake and Clutch Drum Assembly. <i>Title is self-explanatory.</i>	Do.
9-73	1943	Power Train For Tank M5, Disassembly and Assembly. Part IX—Disassembly and Assembly of Final Drive Unit. <i>Title is self-explanatory.</i>	Do.
9-74	1943	Power Train For Tank M5, Disassembly and Assembly. Part X—Disassembly and Assembly of Differential Case Assembly. <i>Title is self-explanatory.</i>	Do.
9-75	1943	Power Train For Tank M5, Disassembly and Assembly. Part XI—Disassembly and Assembly of Controlled Differential. <i>Title is self-explanatory.</i>	Do.
9-76	1943	Hydraulic Transmission For Tank M5, Disassembly and Assembly. Part I—Disassembly Into Major Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-77	1943	Hydraulic Transmission For Tank M5, Disassembly and Assembly. Part II—Assembly of Major Subassemblies. <i>Title is self-explanatory.</i>	Do.
9-78	1943	Hydraulic Transmission For Tank M5, Disassembly and Assembly. Part III—Disassembly and Assembly of Oil Pan, Rear Oil Pump Governor Assembly. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-79	1943	Hydramatic Transmission For Tank M5, Disassembly and Assembly. Part IV—Disassembly and Assembly of Front Servo and Oil Pump Body Assembly, Rear Servo Assembly. <i>Title is self-explanatory.</i>	Notes.
9-80	1943	Hydramatic Transmission For Tank M5, Disassembly and Assembly. Part V—Disassembly and Assembly of Reverse Unit and Rear Bearing Retainer Assembly. <i>Title is self-explanatory.</i>	Do.
9-81	1943	Hydramatic Transmission For Tank M5, Disassembly and Assembly. Part VI—Disassembly and Assembly of Front and Rear Brake Drum Assemblies. <i>Title is self-explanatory.</i>	Do.
9-82	1943	Hydramatic Transmission For Tank M5, Disassembly and Assembly. Part VII—Disassembly and Assembly of Transmission Control Valve Assembly. <i>Title is self-explanatory.</i>	Do.
9-83	1943	The 81-mm Mortar M2 and Mount. Part I—Disassembly of Barrel From Bipod and Base Plate. <i>Title is self-explanatory.</i>	No notes.
9-84	1943	The 81-mm Mortar M2 and Mount. Part II—Disassembly and Assembly. <i>Title is self-explanatory.</i>	Do.
9-85	1943	60-mm Mortar M2 and Mount. Part I—Disassembly and Assembly. <i>Title is self-explanatory.</i>	Do.

9-86	1943	The 60-mm Mortar M2 and Mount. Part II—Disassembly and Assembly. <i>Title is self-explanatory.</i>	No notes.
9-87	1943	Smith and Wesson Revolver, Cal. .45 M1917—Disassembly and Assembly Inspection.	Do.
9-88	1943	The Colt Revolver, Cal. .45 M1917—Disassembly and Assembly Inspection. <i>Title is self-explanatory.</i>	Do.
9-89	1943	Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly. Part I—Disassembly and Assembly of Bipod, Stock Rest, Magazine, and Trigger Guard. <i>Title is self-explanatory.</i>	Do.
9-90	1943	Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly. Part II—Disassembly and Assembly of Functioning Groups. <i>Title is self-explanatory.</i>	Do.
9-91	1943	Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly. Part III—Disassembly and Assembly of Functioning Groups. <i>Title is self-explanatory.</i>	Do.
9-92	1943	Browning Automatic Rifle, Cal. .30, M1918A2 and Bipod M1918A2, Disassembly and Assembly—Removal of Parts Without Disassembly, Inspection and Gauging. <i>Title is self-explanatory.</i>	Do.
9-93	1943	Browning Machine Gun, Cal. .30 M1917A1, Disassembly, Assembly, Inspection and Gauging. Part I—Disassembly of Major Groups From and Assembly To The Weapon. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-94	1943	Browning Machine Gun, Cal. .30 M1917A1, Disassembly, Assembly, Inspection and Gauging. Part II—Disassembly and Assembly of Back Plate Group, Bolt Group, Block Frame Assembly, Barrel Extension. <i>Title is self-explanatory.</i>	No notes.
9-95	1943	Browning Machine Gun, Cal. .30 M1917A1, Disassembly, Assembly, Inspection and Gauging. Part III—Disassembly and Assembly of Cover Group, Rear Sight Group, The Receiver and Water Jacket. <i>Title is self-explanatory.</i>	Do.
9-96	1943	Browning Machine Gun, Cal. .30 M1917A1, Disassembly, Inspection and Gauging. Part IV—Inspection and Gauging. <i>Title is self-explanatory.</i>	Do.
9-98	1943	Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection. Part I—Removal of Major Parts. <i>Title is self-explanatory.</i>	Do.
9-99	1943	Howitzer, Pack, 75-mm, M1A1 and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection. Part II—Disassembly of Wheel Assembly, Bottom Carriage. <i>Title is self-explanatory.</i>	Do.
9-100	1943	Howitzer, Pack, 75-mm, M1A1, and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection. Part III—Disassembly of Mechanism. <i>Title is self-explanatory.</i>	Do.

9-101	1943	Howitzer, Pack, 75-mm, M1A1, and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection. Part IV—Disassembly of Breech Ring and Cradle. <i>Title is self-explanatory.</i>	No notes:
9-102	1943	Howitzer, Pack, 75-mm, M1A1, and Carriage, Howitzer, M3A1, Disassembly and Assembly Inspection. Part V—Inspection of Recoil Mechanism. <i>Title is self-explanatory.</i>	Do.
9-120	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part I—Removing the Gun and Cradle. <i>Title is self-explanatory.</i>	Do.
9-121	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part II—Removing the Top Carriage, Limber, Bogie, and Train. <i>Title is self-explanatory.</i>	Do.
9-122	1943	155-mm Gun M1A1 and Carriage M1, Disassembly and Assembly. Part III—Disassembly and Assembly of the Breech Mechanism. <i>Title is self-explanatory.</i>	Do.
9-123	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part IV—Disassembly of the Top Carriage. <i>Title is self-explanatory.</i>	Do.
9-124	1943	155-mm Gun M1A1 and Carriage M1, Disassembly and Assembly. Part V—Disassembly and Assembly of the Trunnions. <i>Title is self-explanatory.</i>	Do.
9-125	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part VI—Disassembly of the Replenisher and of the Variable Recoil Mechanism. <i>Title is self-explanatory.</i>	Do.
9-126	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part VII—Disassembly and Assembly of the Bogie. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-127	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part VIII—Disassembly of the Bogie (Cont'd). <i>Title is self-explanatory.</i>	No notes.
9-128	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part IX—Disassembly and Assembly of the Heavy Carriage Limber M2. <i>Title is self-explanatory.</i>	Do.
9-129	1943	155-mm Gun M1A1 and Gun Carriage M1, Disassembly and Assembly. Part X—Disassembly and Assembly of the Carriage Air Line and the Emergency Relay Valve. <i>Title is self-explanatory.</i>	Do.
9-130	1943	Howitzer, 155-mm, M1918, Disassembly and Assembly. Part I—Disassembly of the Weapon. <i>Title is self-explanatory.</i>	Do.
9-131	1943	Howitzer, 155-mm, M1918, Disassembly and Assembly—Part II.	Do.
9-132	1943	Howitzer, 155-mm, M1918, Disassembly and Assembly—Part III.	Do.
9-133	1943	Howitzer, 155-mm, M1918, Disassembly and Assembly—Part IV.	Do.
9-134	1943	Howitzer, 155-mm, M1918, and Carriage, Howitzer, 155-mm, M1918A3, Disassembly and Assembly. Part V—Disassembly of Units. <i>Title is self-explanatory.</i>	Do.
9-135	1943	Gun, Automatic, 37-mm, M1A2, Disassembly and Assembly—Part I.	Do.

9-136	1943	Gun, Automatic, 37-mm, M1A2, Disassembly and Assembly—Part II.	No notes.
9-137	1943	Gun, Automatic, 37-mm, M1A2, Disassembly and Assembly—Part III.	Do.
9-138	1943	Rifle, U. S. Caliber .30, M1—Inspection. <i>Title is self-explanatory.</i>	Do.
9-139	1943	Rifle, U. S. Caliber .30, M1, Maintenance and Repair—Part I. <i>Title is self-explanatory.</i>	Do.
9-140	1943	Rifle, U. S. Caliber .30, M1, Maintenance and Repair—Part II. <i>Title is self-explanatory.</i>	Do.
9-142	1943	Browning Automatic Rifle, Caliber .30, M1918A2, Maintenance and Repair—Part I. <i>Title is self-explanatory.</i>	Do.
9-143	1943	Browning Automatic Rifle, Caliber .30, M1918A2, Maintenance and Repair—Part II. <i>Title is self-explanatory.</i>	Do.
9-144	1943	Identification of Ordnance Matériel, Automotive.—Part I. <i>Title is self-explanatory.</i>	Do.
9-145	1943	Identification of Ordnance Matériel, Automotive. Part II—Combat Vehicles. <i>Title is self-explanatory.</i>	Do.
9-148	1943	Identification of Ordnance Matériel, Artillery. Part I—Introduction, Mortars and Howitzers.	Do.
9-149	1943	Identification of Ordnance Matériel, Artillery. Part II—Guns. <i>Title is self-explanatory.</i>	
9-150	1943	Identification of Ordnance Matériel, Artillery—Part III.	Do.
9-151	1943	Identification of Ordnance Matériel, Artillery. Part IV—Railway and Seacoast Artillery. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
9-152	1943	Browning Machine Gun, Cal. .50, M2, Inspection and Gauging—Part I. <i>Title is self-explanatory.</i>	No notes.
9-153	1943	Browning Machine Gun, Cal. .50, M2, Inspection and Gauging. Part II—Barrel Extension Group. <i>Title is self-explanatory.</i>	Do.
9-154	1943	Browning Machine Gun, Cal. .50, M2, Inspection and Gauging—Part III. <i>Title is self-explanatory.</i>	Do.
9-155	1943	Carbine, Cal. .30, M1, Inspection. <i>Title is self-explanatory.</i>	Do.
9-156	1943	Carbine, Caliber .30, M1, Maintenance and Repair. <i>Title is self-explanatory.</i>	Do.
9-157	1943	Thompson Submachine Gun, Cal. .45, M1928A1—Maintenance and Repair. <i>Title is self-explanatory.</i>	Do.
9-161	1943	Identification of Foreign Bombs. Part I—German. <i>Title is self-explanatory.</i>	Do.
9-162	1943	Identification of Foreign Bombs. Part II—Japanese. <i>Title is self-explanatory.</i>	Do.
9-163	1943	Identification of Foreign Bombs. Part III—Italian. <i>Title is self-explanatory.</i>	
9-164	1943	Identification of Foreign Bombs. Part IV—French. <i>Title is self-explanatory.</i>	Do.

9-165	1943	Tire Maintenance—Part I: <i>Title is self-explanatory.</i>	No notes.
9-166	1943	Tire Maintenance. Part II—Retreading. <i>Complete details of inspection procedure, showing use of precision buffer, tire building stand, cushion gum, stitching machine, inspection spreader, retreading mold, and hardness gauge.</i>	Do.
9-167	1943	AC Mechanic Fuel Pumps. Part I—All Series, Troubles, Tests, and Remedies. <i>Title is self-explanatory.</i>	Do.
9-168	1943	AC Mechanical Fuel Pumps. Part II—Series "B" and "R," Disassembly and Assembly. <i>Title is self-explanatory.</i>	Do.
9-169	1943	AC Mechanical Fuel Pumps. Part III—Combination Fuel and Vacuum Pump, Series "AJ," Disassembly and Assembly. <i>Title is self-explanatory.</i>	Do.
9-170	1943	Identification of Ordnance Matériel, Small Arms—Part I. <i>Title is self-explanatory.</i>	Do.
9-172	1943	Antiaircraft Machine Gun Mount, Cal. .50, M2A1, Disassembly and Assembly—Part I. <i>Title is self-explanatory.</i>	Do.
9-173	1943	Antiaircraft Machine Gun Mount, Cal. .50, M2A1, Disassembly and Assembly. Part II—Recoil Mechanism Housing. <i>Title is self-explanatory.</i>	Do:
9-174	1943	Browning Automatic Rifle, Caliber .30, M1918A2, Inspection and Gauging—Part I. <i>Title is self-explanatory.</i>	Do:
9-175	1943	Browning Automatic Rifle, Caliber .30, M1918A2, Inspection and Gauging—Part II. <i>Title is self-explanatory.</i>	Do:

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F.S. Serial No.	Year released	Subject	Remarks
9-176	1943	Tire Maintenance. Part III—First Echelon Maintenance. <i>Title is self-explanatory.</i>	No notes.
10-20	1942	Quartermaster Battalion Bakery. <i>The organization, personnel, equipment, and supply of the quartermaster battalion bakery and the quartermaster company bakery at war strength.</i>	Do.
10-33	1941	Automotive Electricity. <i>Fundamentals and principles of electricity and magnetism; terminology; storage battery operation and maintenance; battery and magneto ignition system; starting and generator system; lighting and other electrical units and systems.</i>	Do.
10-34	1941	Automotive Power Transmission Units. <i>Power transmission systems, clutches, overdrives, transfer cases, power take-offs, propeller shafts and universal joints, final drives, differentials, live axles, and bearings; terminology and nomenclature.</i>	Do.
10-35	1941	Chassis, Body, and Trailer Units. <i>Terminology and nomenclature; frames, springs and shock absorbers; suspension and steering systems; wheel alignment, rims and tires; types of bodies, trailer units and trailers.</i>	Do.
10-36	1941	Automotive Brakes—Principles, Mechanical, Hydraulic, Air, Vacuum, Electric. <i>Title is self-explanatory.</i>	Do.
10-37	1941	Diesel Engines and Fuels. <i>Principles of operations, types, including semi-Diesels; parts and their functions including nomenclature, lubrication and cooling, fuels and fuel systems.</i>	Do.

10-40	1941	Hand, Measuring, and Power Tools. <i>Explains the specific purpose, correct use, and proper care of the common tools of the motor vehicle mechanic.</i>	No notes
10-41	1941	The Blacksmith and the Welder. <i>Explains the purpose and correct use of tools and equipment of the blacksmith and welder.</i>	Do.
10-42	1941	The Internal Combustion Engine. <i>Terminology, principles of operation, types of engines, parts and their coordinated functions; engine lubrication and cooling.</i>	Do.
10-43	1941	The Motor Vehicle. <i>Automotive nomenclature and terminology, common words, terms and phrases; classification, procurement, designation, registration, and description of military motor vehicles; pay loads, weights and types; classification of motor vehicle units and assemblies and their functions.</i>	Do.
10-44	1941	Fuels and Carburetion. <i>Carburetor nomenclature, engine fuels, fuel systems, physics and principles of carburetions; types of carburetors, intake and exhaust systems, superchargers and governors.</i>	Do.
10-45	1941	Service Requirements. Part I—Ford Reconnaissance Car, Maintenance and Lubrication. <i>Title is self-explanatory.</i>	Do.
10-46	1941	Service Requirements. Part II—Ford Reconnaissance Car, Engine Tune-Up. <i>Title is self-explanatory.</i>	Do.
10-47	1941	Service Requirements, 1941 Ford V-8 Passenger Cars. Part I—Maintenance and Lubrication Services. <i>Title is self-explanatory.</i>	Do.
10-48	1941	Service Requirements, 1941 Ford V-8 Passenger Cars. Part II—Engine Tune-Up. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
10-49	1941	The Machinist. <i>Explanation of the drill press, screw cutting engine lathe, the milling machine, the shaper, grinders, and grinding and power hacksaws.</i>	No notes.
10-50	1941	28-Series Zenith Carburetor. <i>Title is self-explanatory.</i>	Notes.
10-51	1941	23-Series Zenith Carburetor. <i>Title is self-explanatory.</i>	Do.
10-52	1941	Construction and Operation of Zenith 450-Series. <i>Title is self-explanatory.</i>	Do.
10-53	1941	First Echelon of Maintenance. <i>The duties, functions, and limitations of the first echelon, a description of the personnel, tools, and equipment.</i>	No notes.
10-54	1941	Second Echelon of Maintenance. <i>The duties, functions, and limitations of the second echelon a description of the personnel, tools, and equipment.</i>	Do.
10-57	1941	Carter Carburetor. <i>Title is self-explanatory.</i>	No notes.
10-58	1941	Inspection of Motor Vehicles—Command, Preventive, Technical. <i>Title is self-explanatory.</i>	Do.
10-59	1941	Sheet Metal Work—Body, Fender, and Radiator Repairs. <i>Title is self-explanatory.</i>	Do.

10-61	1941	The Storage Battery. <i>Battery construction, operation, maintenance, care, and charging methods.</i>	No notes.
10-62	1942	Motorcycle Inspection—Command, Maintenance, Technical. <i>The importance of systematic motorcycle inspections and methods of making them, routines of daily, weekly, monthly, and semiannual inspections.</i>	Do.
10-63	1942	Engine Tune-Up—Part I. <i>Title is self-explanatory.</i>	Do.
10-64	1942	Engine Tune-Up—Part II. <i>Title is self-explanatory.</i>	Do.
10-65	1942	Engine Tune-Up—Part III. <i>Title is self-explanatory.</i>	Do.
10-68	1942	GMC 2½-Ton 6x6 Truck—Operating the Vehicle. <i>Title is self-explanatory.</i>	Do.
10-69	1942	GMC 2½-Ton 6x6 Truck—Springs, Steering, Brake System. <i>Title is self-explanatory.</i>	Do.
10-70	1942	GMC 2½-Ton 6x6 Truck—Power Line, Axles. <i>Title is self-explanatory.</i>	Do.
10-71	1942	GMC 2½-Ton 6x6 Truck—Fuel Systems, Cooling System, Electrical System, Engine Maintenance, and Tune-Up. <i>Title is self-explanatory.</i>	Notes
10-72	1942	Scheduled Lubrication and Minor Adjustments of the U. S. Army Dodge 4x4 Truck. <i>Title is self-explanatory.</i>	Do.
10-73	1942	The Ford Six-Cylinder Engine—Disassembly. <i>Title is self-explanatory.</i>	No notes.

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F.S. Serial No.	Year released	Subject	Remarks
10-74	1942	The Ford Six-Cylinder Engine—Reassembly. <i>Title is self-explanatory.</i>	No notes.
10-79	1942	Principles of the Vacuum Power Brakes. <i>Title is self-explanatory.</i>	Do.
10-80	1942	Servicing of Vacuum Power Brakes. <i>Title is self-explanatory.</i>	Do.
10-82	1942	Principles of the Dwindraft Carburetor. <i>Title is self-explanatory.</i>	Do.
10-83	1942	Overhauling the Chevrolet Carburetor. <i>Title is self-explanatory.</i>	Do.
10-84	1942	Motorcycle Lubrication (Indian). <i>Title is self-explanatory.</i>	Do.
10-86	1942	The Chevrolet Truck Steering Gear. <i>Removal, disassembly in sections, replacement, and adjustment.</i>	Do.
10-87	1942	Principles of Front End and Wheel Alignment. <i>Title is self-explanatory.</i>	Do.
10-88	1942	The Chevrolet Hydraulic Brake. <i>Operation and function of the hydraulic system, brake pedal, and brake shoes.</i>	Do.
10-89	1942	Servicing the Chevrolet Hydraulic Brake. <i>Title is self-explanatory.</i>	Do.

10-90	1942	Motorcycle Lubrication (Harley Davidson). Part I. <i>Title is self-explanatory.</i>	No notes.
10-91	1942	How to Use A Micrometer. <i>Title is self-explanatory.</i>	Do.
10-92	1942	The Use of Measuring Tools—The Rule. <i>Title is self-explanatory.</i>	Notes.
10-93	1942	Piston Ring and Related Parts. <i>Title is self-explanatory.</i>	Do.
10-95	1943	Five Classes of Supplies. <i>The routine procedures in ordering the five classes of supplies: rations, Table of Basic Allowances, gas-oil, miscellaneous, and ammunition.</i>	No notes.
10-96	1943	Messing. Part II—The Railway Kitchen. <i>Diagrams and interior views of railway kitchen car equipped with No. 1 or M1937 field range. Close-up views of installed equipment, the food line, procedure of clearing up after meal, washing of utensils, and disposal of garbage. Includes details of outside messing.</i>	Do.
10-97	1943	Messing. Part I—In Garrison. <i>Various types of equipment used by cooks and mess and kitchen attendants are pointed out in regards to proper use and care.</i>	Do.
10-98	1943	Messing. Part III—The Semi-Permanent Field Kitchen. <i>Selection of site; use of Army field ranges No. 1 and M1937; cooking and baking equipment; and serving.</i>	Notes.
10-100	1943	Messing. Part IV—The Mobile Kitchen. <i>Method of transportation, and description of the following basic equipment: the M1937 field range, firing unit, standard cooking utensils, insulated containers, water heaters, and water containers. Shows the mobile kitchen in operation, including lighting facilities and messing arrangements.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
10-101	1943	Graves Registration. Part I—Location and Laying Out of a Temporary Cemetery. <i>Title is self-explanatory.</i>	No notes.
10-102	1943	Graves Registration. Part II—Identification and Interment. <i>Title is self-explanatory.</i>	Do.
10-103	1943	Packaging and Crating of War Supplies. Part I—How to Obtain Rigidity in Crate Construction. <i>Title is self-explanatory.</i>	Do.
10-106	1943	Refrigeration of Food. Part I—In the Field. <i>Title is self-explanatory.</i>	Do.
10-112	1943	Warehousing. Part III—Safety Precautions. <i>Title is self-explanatory.</i>	Do.
10-116	1943	Operation of Class I Railhead. <i>Explains the process of transferring supplies from the rear to the fighting troops at the front. Shows the requirements and operation of a railhead.</i>	Do.
10-118	1943	The Army Range No. 5. <i>Describes the Army range No. 5 and its parts; method of starting, firing, operating, and cleaning the range.</i>	Do.
10-119	1943	Dehydrated Foods. Part I—Dehydration and Its Advantages. <i>Title is self-explanatory.</i>	Do.

10-120	1943	Dehydrated Foods. Part II—Preparation of Dehydrated Foods. <i>Title is self-explanatory.</i>	
10-123	1943	Waste is Sabotage: <i>The importance of mess supervision, directed as unnecessary waste, to conserve food.</i>	Notes.
10-124	1943	Storage and Handling of Gasoline and Lubricants in the Field. Part I—Gasoline. <i>Outlines precautions that must be observed in the handling of gasoline. Describes approved types of fire extinguishers, and shows what to do when a vehicle catches fire.</i>	No notes.
10-125	1943	The Care and Use of Tarpaulins. <i>Title is self-explanatory.</i>	Do.
10-126	1943	Unloading Gasoline from Tank Cars. <i>Title is self-explanatory.</i>	Do.
10-127	1943	Mess Supervision—The Use of Leftovers. <i>Shows the use of leftovers, meats, vegetables, cooked foods, and rendering of fats. Their uses as substitutes for conservation of food.</i>	Do.
10-128	1943	How to Use the One-Burner Gasoline Cooking Stoves M1941 and M1942. <i>Title is self-explanatory.</i>	Do.
10-131	1943	The Daily Telegram. <i>Illustrates the proper procedure for requesting subsistence supplies; the method of delivery, and the lapse of time between request and delivery.</i>	Do.
11-3	1942	Film Strip Preparation. <i>Title is self-explanatory.</i>	No notes.
11-4	1943	Operation of Motion Picture Projectors. Part I—16-mm Bell and Howell. <i>Title is self-explanatory.</i>	Do.
11-5	1943	Operation of Motion Picture Projectors. Part II—16-mm Ampro. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
11-6	1943	Operation of Motion Picture Projectors. Part III—Portable 16-mm RCA. <i>Title is self-explanatory.</i>	No notes.
11-7	1943	V-Mail. <i>Presents the origin of V-mail and the important part it plays in our present war effort. Shows how to send letters by V-mail, the routing of a letter, and locations of V-mail stations.</i>	Do.
11-8	1943	Elementary Speed Graphic Operations. <i>Title is self-explanatory.</i>	Do.
11-9	1943	Radio Sets SCR-608 and SCR-628. Part I—Introduction. <i>Title is self-explanatory.</i>	Do.
11-10	1943	Radio Sets SCR-608 and SCR-628. Part II—Installation. <i>Title is self-explanatory.</i>	Do.
11-11	1943	Radio Sets SCR-608 and SCR-628. Part III—Operation. <i>Title is self-explanatory.</i>	Do.
11-12	1943	Radio Sets SCR-608 and SCR-628. Part IV—Presetting Radio Transmitter BC-684. <i>Title is self-explanatory.</i>	Notes.
11-13	1943	Radio Sets SCR-608 and SCR-628. Part V—Presetting the Radio Receiver BC-683. <i>Title is self-explanatory.</i>	Do.
11-14	1943	Selection of Sites for Field Radio Stations. <i>Title is self-explanatory.</i>	No notes.

11-15	Rhombic Antennas. Part I—Engineering Principles of Rhombic Antennas. <i>Title is self-explanatory.</i>	Notes.
11-16	Rhombic Antennas. Part II—Erection of Rhombic Antennas. <i>Title is self-explanatory.</i>	No notes.
11-17	Radio Set SCR-284. Part I—Description. <i>Title is self-explanatory.</i>	Notes.
11-18	Radio Set SCR-284. Part II—Installation. <i>Title is self-explanatory.</i>	Do.
11-19	Radio Set SCR-284. Part III—Operation. <i>Title is self-explanatory.</i>	Do.
11-20	Truck K-44B and Earth Borer Equipment HD. Part I—Introduction and First Echelon Maintenance. <i>Title is self-explanatory.</i>	Do.
11-21	Truck K-44B and Earth Borer Equipment HD. Part II—Operation. <i>Title is self-explanatory.</i>	Notes.
11-22	Maintenance of Field Wire Circuits. Part I—Prevention of Trouble. <i>Title is self-explanatory.</i>	No notes.
11-23	Maintenance of Field Wire Circuits. Part II—Detection of Trouble. <i>Title is self-explanatory.</i>	Do.
11-24	Maintenance of Field Wire Circuits. Part III—Localization and Correction of Trouble. <i>Title is self-explanatory.</i>	Do.
11-25	Telephone Central Office Set TC-4. Part I—Introduction. <i>Title is self-explanatory.</i>	
11-26	Telephone Central Office Set TC-4. Part II—Installation and Maintenance. <i>Title is self-explanatory.</i>	Notes.

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F.S. Serial No.	Year released	Subject	Remarks
11-27	1943	Telephone Central Office Set TC-4. Part III—Operation. <i>Title is self-explanatory.</i>	Notes
11-28	1943	Phonetic Alphabet and Pronunciation of Numerals. <i>Title is self-explanatory.</i>	No notes.
11-32	1943	Radio Sets SCR-609 and SCR-610. Part II—Installation. <i>Portable ground installation; vehicular installation in ¼-ton amphibian truck, half-track, ¾-ton weapons carrier, and ¼-ton truck.</i>	
11-33	1943	Radio Sets SCR-609 and SCR-610. Part III—Operation. <i>Operation of the sets, checks to be made before operation, and tips for getting best results during operation.</i>	
11-38	1943	Radio Set SCR-506. Part I—Description. <i>Features of transmitter, receiver, and associated parts; antenna systems; vehicles in which installed.</i>	
11-39	1943	Radio Set SCR-506. Part II—Operation. <i>Receiver and transmitter checks before operation; operating receiver; operating transmitter; operating tips; safety measures.</i>	
12-2	1943	A Soldier's General Orders—Interior Guard Duty. <i>Title is self-explanatory. This film strip is designed primarily for use in special training units.</i>	Notes.
12-3	1943	Military Discipline and Courtesy. <i>Title is self-explanatory. This film strip is designed primarily for use in special training units.</i>	Do.

12-4	1943	How to Wear Your Uniform. <i>Title is self-explanatory. This film strip is designed especially for use in special training units.</i>	Do:
12-5	1943	The Story of Private Pete. <i>Presents the basic words that are needed for reading Parts I and II of the Army Reader, TM 21-500; aims to provide sufficient repetition to assure recognition and understanding of these words. Contains basic preparatory materials essential in a reading program for non-English speaking soldiers and slow learners.</i>	Do.
12-6	1943	Introduction to Numbers. <i>Demonstrates elementary problems of addition, multiplication, division, and subtraction. The charts are based on soldier vocabulary and experiences. This film strip is designed primarily for use in special training units.</i>	Do.
17-1	1941	Blocking and Securing Vehicles for Shipment by Railroad. <i>Title is self-explanatory.</i>	No notes.
17-2	1941	The Thompson Submachine Gun, Caliber .45, M1928A1, Mechanical Training. Part III. <i>Characteristics, nomenclature, assembling and disassembling, functioning, care and cleaning, stoppages and immediate action, spare parts and accessories, safety precautions, and ammunition.</i>	Do.
17-3	1941	The Light Tank M2A4 and M3—Description and Characteristics. <i>Title is self-explanatory.</i>	Do:
17-4	1941	The Medium Tank M2A1—Description and Characteristics. <i>Title is self-explanatory.</i>	Do.
17-6	1941	Tank Maintenance, First Echelon—Part I. <i>Title is self-explanatory.</i>	Do.
17-7	1941	Tank Maintenance, First Echelon. Part II—Inspections. <i>Title is self-explanatory.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
17-8	1941	The Medium Tank M3—Description and Characteristics. <i>Title is self-explanatory.</i>	No notes.
17-9	1942	The Half-Track—Description and Characteristics. <i>Title is self-explanatory.</i>	Do.
17-10	1942	Tank Maintenance—The Tracks, Light Tank M3 and Medium Tank M3. <i>Title is self-explanatory.</i>	Do.
17-11	1942	Tank Maintenance—The 25-Hour Inspection, The Light Tank M3. <i>Title is self-explanatory.</i>	Do.
17-12	1942	Tank Maintenance—The 100-Hour and 300-Hour Inspections, Light Tank M3. <i>Title is self-explanatory.</i>	Do.
17-13	1942	Tank Maintenance—The 25-Hour Inspection, Medium Tank M3. <i>Title is self-explanatory.</i>	Do.
17-14	1942	Tank Maintenance—The 100-Hour and 300-Hour Inspections, Medium Tank M3, Gasoline Engine. <i>Title is self-explanatory.</i>	Do.
17-15	1942	Browning Machine Gun, Caliber .50 HB, M2, Mechanical Training—Part I. <i>Complete description, assembly, and disassembly.</i>	Do.
17-16	1942	Browning Machine Gun, Caliber .50 HB, M2, Mechanical Training—Part II. <i>Maintenance and cleaning of the gun before firing, driving gas attack and during cold weather; important factors and safety precautions which have to be observed in handling and firing the gun.</i>	Do.

17-17	1942	The Truck, $\frac{1}{4}$ -Ton, 4x4—Description and Characteristics. <i>Title is self-explanatory.</i>	No notes.
17-18	1942	The 37-mm Gun, Tank M6. Part I—Disassembling and Assembling. <i>Title is self-explanatory.</i>	Do.
17-19	1942	The 37-mm Gun, Tank M6. Part II—Functioning, Care and Cleaning, Ammunition, Sights, Accessories, Safety Precautions. <i>Title is self-explanatory.</i>	Do.
17-20	1942	The Truck, $\frac{1}{4}$ -Ton, First Echelon—Driver Maintenance. <i>Title is self-explanatory.</i>	Do.
17-21	1943	The 75-mm Gun, M2 and M3 (Tank). <i>Complete [description of characteristics; field disassembling and assembling; also details of assembly and disassembly.</i>	Do.
17-22	1943	Installation of Weapons in Combat Vehicles. <i>Title is self-explanatory.</i>	Do.
17-23	1943	The Light Tank M5—Description and Characteristics. <i>Title is self-explanatory.</i>	Do.
17-24	1943	Medium Tank M4—Description and Characteristics. <i>Title is self-explanatory.</i>	Do.
17-25	1943	Identification of Armored Vehicles. Part I—Full-Track Laying; <i>Title is self-explanatory.</i>	Notes.
17-27	1943	First Aid—Removal of Casualties from Tanks. <i>Title is self-explanatory.</i>	No notes.
17-28	1943	105-mm Howitzer M2, Mounted on Self-Propelled Mounts. Part I—Mechanical Training. <i>Description and characteristics; nomenclature; disassembling; removal and disassembling breechlock; disassembly and assembly of firing lock M13; disassembly and assembly of howitzer from sleigh, sleigh from cradle, and equilibrator from carriage.</i>	Do.

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F.S. Serial No.	Year released	Subject	Remarks
17-29	1943	Arm and Hand Signals, Flag Signals, Light Signals. <i>Title is self-explanatory.</i>	No notes.
17-31	1943	Identification of U. S. Army Armored Vehicles. Part II—Half-Track Laying and Wheeled. <i>Title is self-explanatory.</i>	
18-1	1943	The 75-mm Gun Motor Carriage M3. Part I—Care and Cleaning of the Piece. <i>Title is self-explanatory.</i>	Do.
18-2	1943	The 75-mm Gun Motor Carriage M3. Part II—Bore Sighting. <i>Title is self-explanatory.</i>	Do.
18-4	1943	Three-Inch Gun Motor Carriage M10—Lubrication. <i>Title is self-explanatory.</i>	Do.
18-5	1943	Three-Inch Gun Motor Carriage M10. Part II—First Echelon Maintenance. <i>Title is self-explanatory.</i>	Do.
18-6	1943	Three-Inch Gun Motor Carriage M10 and M10A1. Part IV—Care and Cleaning of the Piece. <i>Title is self-explanatory.</i>	Do.
18-7	1943	Three-Inch Gun Motor Carriage M10. Part III—Periodic Inspections. <i>Title is self-explanatory.</i>	Do.
18-8	1943	Three-Inch Gun Motor Carriage M10. Part I—Control and Operating Instructions. <i>Title is self-explanatory.</i>	Do.

19-1	1943	Preparing and Reading a March Graph. <i>Show graphs with symbols denoting distance, time, halts, head and tail of column, and an actual problem of moving 120 trucks in 6 march units using an SM speedometer multiplier of 3.</i>	No notes:
19-2	1943	Police Riot Club. <i>Title is self-explanatory.</i>	Do:
19-3	1943	Thompson Submachine Gun—Firing. <i>Explains and demonstrates the correct firing positions for submachine gun firing. The prone, kneeling, and standing positions are demonstrated.</i>	Do:
30-1	1943	The Japanese Soldier. (Sound.) <i>A vivid portrayal of the life of the Japanese soldier from his early childhood until he becomes an active warrior in the Imperial Army; his environment, characteristics, and beliefs. Strenuous training methods are described.</i>	Notes:
30-2	1943	The German Soldier. (Sound.) <i>A brief history of German militarism. Presents the old and new methods of warfare which are practiced and perfected by the German Army; describes the intensive training methods imposed upon individuals and youth groups; stresses the fact that the German soldier is well trained in military science and tactics.</i>	Do:
30-3	1943	Censorship of Mail. (Sound.) <i>Shows portions of personal letters which would reveal important information if the letters were procured by the enemy. Points out how easy it is to reveal vital facts, and how the enemy pieces bits of information together regarding location and movements of troops, equipment, etc.</i>	Do:
30-5	1943	Identification of Japanese Uniforms, The Japanese Army. (Color.) <i>Title is self-explanatory.</i>	No notes.

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17. FILM BULLETINS

FB No.	Subject	Running time (minutes)
1	a. The 90-mm Antiaircraft Gun. b. 37-mm Remote Control. c. The 16-Inch Howitzer (Firing Tests).	7
2	a. A New Type Trench Digger. b. Experimental Type Flame Thrower. c. Rubber Boats.	6
3	a. Experimental Carriers for 37-mm Gun. b. The 75-mm New Gun Half-Track Carrier. c. Experimental Incendiary Bomb. d. Road Craters.	10
4	a. Wire Thrower RL-37-T2. b. Camouflage Net. c. Tilt Type Semi-Trailer.	10
5	a. A Provisional Infantry Antitank Battalion in Attack. b. Aerial Bombs.	9
6	a. Canadian Medium Tank M3. b. U. S. Army Medium Tank M3:	11
7	Barrage Balloons.	2
8	a. Self-Propelled Gun Carrier for 37-mm Gun: b. Self-Propelled Gun Carrier for 37-mm Gun: c. 25-Ton Ponton Bridge.	10

9	d. Bofors 40-mm Antiaircraft Gun and Carriage.	16
10	e. Bofors 40-mm Antiaircraft Gun (Firing Tests).	7
11	First Division Landing Operations—North Carolina	10
12	90-mm Antiaircraft Gun Battery.	11
13	a. Mobile 37-mm Gun Mount T21.	11
14	b. Medium Tractor T9.	7
15	a. Half-Tracks T2 and T3.	19
16	b. Concrete Mixer.	11
17	a. Gas Masks.	8
18	b. T16 and T32 Motor Carriage.	10
19	c. Hasty Tank Obstacles.	11
20	a. Daimler Four-Wheel Drive English Scout Car.	11
21	b. 75-mm Tank Gun M2.	
22	Army Maneuvers.	
23	Invasion of Crete by the German Army.	
24	a. Multiple Gun, Power-Operated Turret.	
25	b. 155-mm Gun with Hydraulically Operated Trail.	
26	c. .30 Caliber Carbine.	
27	a. Motorcycle.	
28	b. Armored Vehicles.	
29	c. The "Aqua Cheetah" (Sea Jeep).	
30	Parachute Regiment.	
31	Tank Obstacles.	
32	Amphibious Force.	

17. FILM BULLETINS

FB No.	Subject	Running time (minutes)
23	Bond Rallies.	6
24	Parachutists on Skis:	21
25	Labor Greet's General Somervell:	10
26	a. Amphibian Cargo Tractor. b. Mobile Laundry Unit.	9
27	a. Women Working on Men's Jobs: b. Mobile Field Baking Unit.	9
28	Decontamination of Combat Vehicles.	11
29	Fire, Quartermaster, Fire. (<i>Not for General Distribution.</i>)	9
30	Mobile Machine Records Unit.	10
31	Battlefield Sounds.	11
32	a. Soldier Stevedores: b. Pigeons. c. Parachutists. d. Latin American Officers Visit Edgewood Arsenal.	9
34	U. S. Troops in New Caledonia.	11
35	a. Loading of Cargo Planes. b. Air Bombing.	11

37	c. Commando Training in U. S. A.	9
38	d. Dog Training.	8
39	Highway to Alaska.	11
40	Seek, Strike, and Destroy (Army Tank Destroyers):	11
42	Scrap for Victory.	14
43	Alaska Pipe Line (<i>Confidential</i>).	10
45	a. Convoy Snapshots—Somewhere in the Pacific.	10
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58	White Phosphorus Versus High Explosives.	12
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60	Smoke Defense Against Air Attack.	14
61	Radio Target Planes.	12
62	Zombie—Experimental Tests with the 7-Inch Chemical Rocket (<i>Confidential</i>):	
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67	Soldiers of the Line.	6
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91	Use of War Dogs.	12
93	Spiral Four Cable and Cable Plow LC-61:	9
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